

Nature Note Book

Western Trip 9th to 26th June '59

Name.....

2nd 17th June 1960.

Subject.....

BROWNE AND NOLAN, LIMITED

Dublin

Belfast

Cork

Waterford

VOL. 28.

DIARY

OF

Hymenoptera, other insects, plants, etc.,

seen or taken by A.W. Stelfox

from 9th June 1959

until 18th June 1960.

Western trip, with H. W. & M. D. Getty
June 1959

Tue. 9th June '59 Left Newcastle, Co. Down, at 10.15 AM
& arrived Bundoran, E. Donegal, about 4 PM.

A very windy (SW) & showery day & no collecting possible on the journey. Had lunch by S. shore of Lough Erne a few miles W. of Enniskillen, Co. Fermanagh, about 1.30 PM, where I saw some small Eurytemora crassipes, V. longicollis & one tree of Alnus incana. In late afternoon we walked round Gull Point almost to Finner Strand in strong W. gale & watched the waves.

Wed. 10th June After heavy showers during night, a dry day & nice sunny afternoon, till a slight drizzle started as we came home at 5.0 to 5.30 PM.

Drove (M. D. Getty, i.e.) straight to Donegal town, where turned & M. D. Getty & I collected by sweeping in four areas as follows:—

1 = Along road from town to 'The Abbey' pub. trees, 11.0 to 11.30 AM.

2 = By the shore (salt marsh, etc.) 1 mile S of station, 11.45 to 1.0 PM.

3 = On dunes, planted with Pinus (mostly dead) etc.

Donaghadee, 2.30 to 4.0 PM.

4 = In marshy fields, with reeds & Salix bushes along the dykes, behind the dunes, at Donaghadee, 4.30 to 5.0 PM.

7.6.59, cont. Shore at Bognor Regis, E.D.

Taken at 1.

Scaphis 2 = *Scaphisoma variabile*, *Scaphisoma* ?
Scaphisoma variabile ?

Aphelopus sp. *whitneyi* ♂

Brachion sp. ♂; ant. 26, last segment spindly, longish.

Apanteles 2 not mtd.

Euphorus 1 (30) = *E. scutellator* Link, ant. 20 = *scutellator* Thoms.

Opius 5: = *O. rudis*, small ♂ ant. 27. *O. cf. arida*? ♂ ant. 26.

O. cf. ruficornis, but 1st seg. small ♂ ant. 23-24.

O. cf. pallidus? ♂ ant. only as a radius rather straight & not sinuous?

Trachysoma *aurum* 2: ♂ mtd., ant. 32.

Aspilota 5: 4 mtd. = *Orthostigma* ♀ ant. 20. *Asp. pectoris* group, small ♀ ant. 20.

Asp. cf. crassifemur, small ♀, ant. 23. *Asp. nigrescens* group, damaged ♀, ant. X.

Dacnusa *longicauda* common; also probably *maculipes* & *areolaris*.

D. areolaris, large ♂, ant. 39. very nice male!

D. telus Ael. ♀, ant. 30.

D. parvicornis Thoms. ♀, ant. 26.

Chorebus *conjugens* 2 not mtd.

Aphidius spp. 13

Pentapleura 11
Elid 12

Gynopoda 2
Small Diptera

Ichneumonidae 3 =

Microcryptus sp. *arvensis* group, ant. 26.

Chorebus 1? ♀, ant. 29, red mtd.

Black thin *Chorebus* sp.

Stenomacrus sp. *marginatus* Link, ♀ ant. 22.

Young mtd. =

7.6.59, cont.

Highlandy (lost - and, etc.)
Shore, 1 mile S. of Bognor, E.D.

Taken at 2.

Argemone 3 ♂♂, none mtd.

Epitomus 1 not mtd.

Cryptus 11, mostly *atractus* or *Hamatulus*, none mtd.

Campoplegid 2 not mtd.

Brachion 2 = { *B. fulvipes* ♂, ant. 22.
12 of *lucipitanga* Link, ant. 20.

Apanteles 11: 3 only mtd. = sp. ? of series from W. Kent, to DV.
Races to living state, but could be that. Thoms (ant. 19/20) names them (10.2.24).

Apanteles *reticulatus* Thoms. 1

Microplitis 1 = *M. ruficornis* ♂.

Opius 4 = *O. ater* sp. ♀, ant. 23. *O. irregularis* ♀, ant. 24.

O. cf. exilis? small ♀, ant. 27. *O. sp.* ♂, ant. 30, dark wings.

Aspilota sp. ♀, small, ant. 17, dark wings, mtd. legs!

Dacnusa *areolaris* group 13, none mtd.

D. areolaris 4 ♂♂, ant. 22-24.

D. lagabris ♀, ant. 35, not mtd. of same or propodeum; post-scutellum mtd.!

D. cf. dirons? ♂, ant. 28.

Chorebus *conjugens* 3: not mtd.

Aphidius 9

Pentapleura 9

Elid 12

Gynopoda 2

Lynceus 2

none mtd.

Diptera (*Stictopneustes*) 5.

= *Corynorhinus bilineatus*

Thomomys *shagrinatus*!

♂ & ♀

10.6.59, cont. Bushill at Brimingham, E.D.

Taken at 3.

Triclistus ? ♂, ant. 22, yellow face = *Hypamblyx* sp. f. 1. 7. 59. 1960

Triclistus ♂ - *Triclistus* ♂, ant. 12.

Triclistus ♂ = *Triclistus* ♂, ant. 18.

Brachymeria ♂, ant. 20.

Apanteles ♂, ant. 22.

Pentapleura ♂, ant. 28. *Epilobium* of pollifer, ant. 22.

Opius ♂ = *Opius* ♂, ant. 22.

Aspilota of *litigiosa* ♂, ant. 17.

A. (Synaldis) ♂, ant. 19.

Dacnusa of *areolaris* ♂, ant. 22. not mtd.

D. calliope ♂, ant. 30.

D. (G.) affinis ♂, ant. 22.

Triclistus ♂, ant. 22.

Aphidius sp. 4.

Proctos.

Chalcids.

non mtd.

Edelsteinia ♂, ant. 22. frequent, one taken.

Andrena ♂, ant. 22. one taken.

Holictus ♂, ant. 22.

Sphindus of *affinis* ♂, ant. 22.

Crabro ♂, ant. 22.

Stenobothrus ♂, ant. 22. (= *Stenobothrus* ♂, ant. 22.)

10.6.59, cont. Bushill at Brimingham, E.D.

Taken at 4.

Triclistus ♂, ant. 22. *Hypamblyx* ♂, ant. 22.

Triclistus ♂, ant. 22.

Triclistus ♂, ant. 22. = *Triclistus* ♂, ant. 22.

Pentapleura ♂, ant. 22.

Brachymeria ♂, ant. 22. not mtd.

D. calliope ♂, ant. 22. *D. calliope* ♂, ant. 22.

Triclistus ♂, ant. 22.

Apanteles ♂, ant. 22.

Brachymeria ♂, ant. 22.

Opius ♂, ant. 19. *Opius* ♂, ant. 22.

Pentapleura ♂, ant. 22.

Brachymeria ♂, ant. 22.

Aspilota ♂, ant. 18. *Dacnusa* ♂, ant. 22.

D. calliope ♂, ant. 22. (= *D. calliope* ♂, ant. 22.)

Triclistus ♂, ant. 22.

Brachymeria ♂, ant. 22. large, 1 very broad.

Triclistus ♂, ant. 22. *Triclistus* ♂, ant. 22.

Aspilota ♂, ant. 22. *Aspilota* ♂, ant. 22.

Proctos. ♂, ant. 22. (= *Proctos.* ♂, ant. 22.)

Chalcids. 8

8.
12th June 59. A very fine day, nearly all morning with gentle NW breeze. From 11 AM to 1 PM to Bunduff, Mullaghmore, Tinseltown & finally Stroudagh, all Co. Sligo, & collected in 3 areas.

as follows: -

- 1 = March at W end of Bunduff Lough, 11.0 to 12 noon
- 2 = Scrub, etc. in Travassua, before 12.10 till 2.45 PM
- 3 = Marching spot, along road side, at Stroudagh, 3.30 - 4 PM.

(21) Found on both sides of road near outlet of Bunduff Lough, Co. SL.

Cryptineid 7: 3 only, etc. *Atractodes* 4 large ♂, 1 ♀, ant. 30-32. *Cryptine* ♂, ant. 30.

Cataglyphis crassipes ♂, ant. 29.

Stenocryptus 2 = *St. lineator* n. sp., 2 ♀♀, ant. 25 & 26: very nice specimens!

Microgaster small dark sp. ♀

Helorus ♂ & ♀: not mtd.

Brachymeria 2 ♂♂: not mtd.

Apanteles ♀: not mtd.

Pimpla *concolor*? ♀, ant. 31.

Opius 2: 1 mtd. = *O. pendulus* ♂, ant. 20.

Dacnusa areolaris group 7: one mtd. only = *D. areolaris* ♀, dark legs, ant. 22.

D. areolaris = *D. (G.) areolaris* No. 1 ant. 22, 2 ant. 23, 1 ant. 24, 1 ant. 25, 1 ant. 26, 1 ant. 27, 1 ant. 28, 1 ant. 29, 1 ant. 30. = 7?

D. areolaris 1 ♂ (ant. 30), 2 ♀♀ (ant. both 27).

D. areolaris ♂, ant. 27/28.

Rhyssalus *irregularis* (n. sp.) Travassua ♂, ant. 35 (1) 36, 59.

Psylliodes *parvulus*, small ♀, ant. 16.

Xiphiocampa *maculata* *perthensis* ♂? See opp. page 7

13. 6. 59. cont. Taken at 2. Bunduff, Co. SL, cont. *Dacnusa* (♀) *affinis* ♂, ant. 21. (2 ♀♀) 1 mtd. ♂, ant. 21. See opp. p.

Microgaster *concolor* ♂: not mtd.

Atractodes 2: 1 mtd. = *A. (G.) areolaris* ♂, ant. 30.

Cataglyphis 20: 1 mtd. *Pachymeria* *clitellaria* of *microgaster* Hoffm. only seen for *clitellaria* (in *Cataglyphis*) but none taken, but mtd. 1 ♂, ant. 27, 1 ♂, ant. 28.

Dacnusa *maculata* of *perthensis* ♂.

Scaphisoma *fulvipes* ♂, ant. 19. seen! Not mtd.

Pachymeria *clitellaria* ♂ & ♀, also this one ♂.

Empusa cf. *libanotis*? ♀.

12. 6. 59, cont. Travassua, Co. SL.

Taken at 2.

Atractodes 4 ♂, 1 ♀: not mtd.

Cryptine 7 ♀, mostly mtd. = 2 ant. 37.

Pimpla ♂: not mtd.

Proctos *pubescens* ♂: not mtd.

Stenocryptus of *clitellaria* ♂, ant. 26.

Helorus 1 ♀: not mtd. *Pachymeria* *clitellaria* ♀, ant. 24.

Pezomachus ♂: not mtd.

Helorus ♂: not mtd.

12.6.69 (2) cont. Transvaal, SL, cont.

Bracon 2 = { 1 sp. of *parvipes* 2, 1st ant. 34.
1 sp. of *apicatus* 1st ant. 34.

Rogus irregularis ♂, ant. 55.

Euclyptus ♂ = *blumenthalii* *regularis* ♂, ant. 26.

Microplitis ♂ = *M. mediana* ♂

Acrobasis ♂ = *A. mediana* ♂

Agathis ♂ = *Agathis* ♂, ant. 33.

Opius 3 ♂♂ = *Opius* ♂, ant. 33.

Exochus ♂ = *Exochus* ♂, ant. 33.

Stilpnus ♂ = *Stilpnus* ♂, ant. 30. *Opius* of *exochus* 1, 1st ant. 34.

Exochus ♂ = *Exochus* ♂, ant. 30. *Opius* of *exochus* 1, 1st ant. 34.

Stilpnus ♂ = *Stilpnus* ♂, ant. 30. *Opius* of *exochus* 1, 1st ant. 34.

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13.6.69 (2) cont. Transvaal, SL, cont.

Stilpnus ♂ = *Stilpnus* ♂, ant. 30. *Opius* of *exochus* 1, 1st ant. 34.

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Stilpnus ♂ = *Stilpnus* ♂, ant. 30. *Opius* of *exochus* 1, 1st ant. 34.

12.6.59, cont. Stroudagh, Co. SL.

Heptans 2 = *Loxocera crinita* & *Heptans nigricornis* ?

Heptans 1 small, not id.

Homocidus signatus ♂, small, red abd.

Bracon fulvipes 2 ♂♂ *B. nigrifrons* ? a dark ♂, ant. 33.

B. nigrifrons ♂, ant. 29. *B. sp.* ♂ ant. 27. small prop. & tergite 8.

Apanteles near *obscurus* ♀, but small & dark legs.

Pentapleura pumilio ♂, not id.

Phaenocarpa conspurcator 2 ♂♂ 2 ♀♀. *Ph. sp.* 1 ♂, not id.

Dacnusa areolaris group 3, including several.

D. elegantula 2 *D. areolaris* 1 *D. (G.) affinis* ♀ } none id.

Chorebus confusus 4: 1 ♂ (ant. 24) & 1 ♀ (ant. 18) with both small.

Aphidius sp. 1 not id.

Proctos 1 =

Exochus ?

Chalcids 12.

13th June '59. A scorching hot day, after a misty morning!

Left Bandon at 10.15 after tea & walked Old Head, Co. Mayo, above Carrisling, via Sligo, Bellinacross, Crossmolina, Pentlagon, Carrisling & Westport.

Stopped for lunch at 12.15 & mile N of Pentlagon. Then the old school road came down to shore of Lough Linnane & here collected in the wood for an hour, chiefly in damp hollow where *Quercus* & *Alnus* flourish. Saw in the wood a *Junco* bird, & several *Agave* *arvensis*, but they were small. Oak, ash, birch, rowan & alder.

Wood 1 mile N of Pentlagon, Co. ED. EM

Albia *sericea* ♂

Albia *pallidior* ♀

13.6.59, cont. Wood 1 mile N. of Pentlagon, ED. EM

Albia 6: only one id. = *Albia* ♂, ant. 22, with both small, but legs dark. 7 of 8 for *Albia* ♂, ant. 22 & 13, 20, 21.

Stenomacrus *ventralis* ♀, not id.

Promethes *pallidior* ♂, not id.

Acetabulum *subfasciatum* ♂ & ♀ with both small.

Heterocentrus *nigripes* ♂, dark, short, wings, ant. 28.

Adelius *depressus* ♂, small black ♀, ant. 20.

Opus *admirabilis* ♂, & ♀ other all id. = *Opus* *admirabilis* ♂, irregular, one is *Opus* *admirabilis*, & one is *Opus* *admirabilis*.

Albia *sericea* ♂, not id. *Albia* *sericea* ♂, not id.

Alysiid *tipulae* ♂, ant. 42. *A. rufipes* var. *umbra* ♂, ant. 39. } very like a *tipulae* but small & not in *tipulae* shape.

Adelius *flaviventris* ♂, ant. 36, very small. *Aphidius* *truncatus* ♀, ant. 22.

Albia ♂, including *A. fulvicornis* ♀, ant. 22. *A. sericea* ♀, ant. 19.

A. nigricornis ♂, ant. 23. *A. atra* ♀, ant. 22. *A. cf. tibialis*, small ♀, ant. 16.

A. cf. tibialis ♂, ant. 22. *A. cf. tibialis* ♂, ant. 22.

A. cf. tumida small ♀, ant. 16. *A. (G.) rufipes*, ant. 19.

Dacnusa *longicauda*, *maculipes*, ♂ & ♀, none id.

D. areolaris 2 ♂♂. *D. elegantula* ♂, ant. 22. *D. areolaris* ♂, ant. 22. *D. areolaris* ♂, ant. 22.

D. areolaris var. ♂, ant. 37+, wings very dark, tergite 1 almost black, but legs dark.

D. strigata ♂, ant. 29.

D.

13.6.59 cont. Wood near Carlow, C.M. cont.

Baronia (4) *Jappa* 2: 1 only mtd, ant 25

2. (16) *Phyllocolpa* 2: none mtd.

Chrysomelids 11: some with polka dots, some mottled, numerous! 1 *Gast.* ant. 20

Aphidius 11: ant. 11. *Phaenocarpa* 1: none mtd.

Aphidius spp. 3: none mtd.

Pteron 1, 7. 18. The largest *Cynipid* taken in bulk of trees by *Cynipids*.

Chalcids 11.

14th June (Sunday). Very hot & all sunny! Collected up things in forenoon. In afternoon Mr. Galtley drove us with his Doughty, but far too hot for small insects & the few *Cynipids* I collected from meadow owing to not take leaving him forced against severe & so insect, none entered my net.

15th June. Mr. Galtley drove us via Westport, Westport & Mulkeam to Achill & a far in Dooagh, where we turned & came back by road on S. side of Curran Achill instead of the main road on N. side. Goodward journey we spent half an hour seeing the prehistoric Heath.

13.6.59 cont. around the S. end of Ballacraigh. They got N. of Malinbeg, 15. saw it on Curran Achill near same place & by various places on south side on return journey. Did not collect any more but saw a *Bombus muscorum* on S. side of Curran Achill - the first *muscorum* seen on the trip.

16th June. A nice fine day, with mist at times on the hills, but considerable sun with fresh NW. wind. Drove from Malinbeg to Colindale, W. Galway, via Ross Lough, Lough, Lough Fee, & Lough Fee; & home via Bellefleur, Branganore Lough, Roundstone & back to Bellefleur, & there via Gleninagh to Lough Fee & home.

Stopped for lunch at head of Ballyvaughan Harbour & then swept a few minutes along the shore, as follows:-

<i>Hemiteles</i> 2 small ones	<i>Promethes</i> 1	<i>Aspilota</i> 1	
<i>Aspilota</i> 400, 19	<i>Aspilota</i>		
<i>Microgaster</i> 1			
<i>Chalcids</i> 1, 6			none mtd.

During the day I took 18 photos, chiefly around Ross Lough & Bellefleur. Took a few near Bellefleur & Lough Fee at Ross Lough at 6 P.M. Looked for *Enicospilus* & *Proctos* near Bellefleur but failed to see either & rather early in season. dug up a couple of mill plants of *Delphinium* at Bellefleur & took a very tall form of *bona goodenii* near Bellefleur by the river.

17th June '59. Variable weather & strong NW-W wind, but considerable sun during mid day, and in evening some drizzle or very heavy rain in afternoon. Driven by Mrs Daltry to Long Walk, by entrance of the Owerbrin, via Leamere & Long Napocay & home via Clonburn, Long Boreat & Mason Bridge ^{to the west gateway}.

Spent some time & had lunch on various flat, sandy, and on shore of Long Walk, immediately N of mouth of the Owerbrin, where E. H. Webb discovered the American plant *Hypericum canadense* a few years ago & found it in plenty in one deep area (Mrs Daltry being the first to spot it here!). A very diverse, but abundant, flora covers this sand flat, including much plants of *Pinguicula lusitanica*, *Pappus pectinatus*, *Centunculus minimus*, *Salsola verpa*, *Conium maculatum*, *Myosotis* sp.

On sand, & also by the road took or saw the following bees:

- | | |
|--|------------------------------------|
| <i>Colletes</i> ^{various} 1 or 2 ♀. | } or recorded by Long Walk |
| <i>Habropoda rubicundus</i> examined | |
| <i>Lasius rufus</i> 3 or 4 males | } two off of ant. a the sand flat. |
| <i>Formica fusca</i> group of 1 ♀ & 1 ♂, probably <i>F. lemane</i> | |
| <i>Exochus</i> <i>brunneus</i> ♂, ant. 32, swept in gorge below waterfall at Long Napocay. | |
| Was a <i>Proctos</i> (put with <i>L. Boreat</i> patch). | |

17th June '59, cont.

When passing along shore of Long Boreat, W. of Cornamona, I swept or drove for a few minutes in a sheltered spot & here took the following insects:-

- Shore of L. Boreat
- Hemiteles* ♂, ant. 22, 23, 24 =
 - Leptocryptus* ♂, ant. 22, 23, 24 =
 - Proctos* *cydopis* ♂, ant. 25.
 - D. maculipes* ♀, very small, ant. 20. *D. areolaris*, ♂, dark legs, ant. 20.
 - D. lugens* Hal ♂, ant. 22. *D. (G.) siniffa*?
 - Chorebus* *maculipes* ♀, ant. 24.
 - Colletes* 5
 - [Also with these a *Proctos* (Hagrid!) from L. Nafoocay!]
 - Platygaster* 1 =

On ^{way} home stopped for tea at 4 PM & I found a very sheltered swamp at SE end of the Mason Boreat, near the Bealancha to River, & swept here for about 20 minutes & took the following:-

- Mason Boreat
- Hemiteles* ♂, ant. 22
 - Phygadeuonid* ♂, ant. 23 =
 - Zochephus* sp. 3 or 4; but the very small ♂, ant. 21, very small.
 - Promethes* *dorsalis* ♀, ant. 31. small ♂, ant. 21 & at first sight mistaken for ♂ *festus*.

17.6.59, cont. Taken Bridge. cont.

Meloboris sp. 2000, 244, ant. 25.

Aphidius of *pullipes* group 2000.

A. fuscicornis? 1000.

Chalcid 2000, 244, ant. 25. *Chalcid* 2000, 244, ant. 25. *Chalcid* 2000, 244, ant. 25.

Opius sp. 3 = *O. de* sp. 343, ant. 25.

O. cf. levis 5? ant. 25.

Pentapleura 757, ant. 25.

Phaenocarpa 2000, 244, ant. 25.

Z. curvica 2000, 244, ant. 25. *Z. curvica* 2000, 244, ant. 25.

Z. elegantula 2000, 244, ant. 27. *Z. elegantula* 2000, 244, ant. 27. *Z. elegantula* 2000, 244, ant. 27.

D. 2000, 244, ant. 25. *D.* 2000, 244, ant. 25. *D.* 2000, 244, ant. 25.

D. (G.) cf. oligoneura? 3000 (ant. 27) + 397 ant. 25. (ant. 23, 24, 25).

D. (G.) myrmecopoda 2000, ant. 25.

D. (G.) pleuralis 2000, 244, ant. 21 & 22. seg. Same species as taken

at Glanding (near Blessington, Co. WI.), Co. KD. A.W.S. 11/7.9.1955.

Chalcid 2000, 244, ant. 21.

Aphidius of *brunneus*? 2, ant. 14.

Trioxys 2000, 244, ant. 21; = *T. m.*?

Chalcid 2000, 244, ant. 21.

17.6.59, cont. During the day, I finished the roll of 36 Kodachrome exposures + posted it the following morning.

18th June. Left Old Head about 10 AM + driving by Mr. Bally to Craigmore Lough, via Luncarty, + Ballyvaughan, where Mr. Bally + I searched for *Ericaceae* + *Erica* markings + found plenty of the former - but no sign of flowering - + several types of *Erica* around *Calluna*, though I doubt any were *marckiana*. Various forms of *Erica* brought away in polythene bag, as well as some of *Calluna* leaves. Also seen about the lough were plenty of *Calluna* (just coming into flower) + *Calluna* *marckiana*, as well as all three species of *Erica*. Photos of White Water lily + *Desmodium longifolium* of *Erica*.

Taken at small boggy lough on N side of the road.

After lunch we came to Salthill (stayed at the Hotel Rio)

via Scrub, Cortelloe, Spiddal + the coast road.

No insects collected except a few purple *Calluna*.

(= *E. astenulata*) at Craigmore Lough, where many species of

dragonflies were seen, including a very small one - possibly

Leucostictus, but?

19th June '59. After a dull day, becoming a very hot & entirely sunny day. Took bus for me & went small parasitic hymenoptera. Left Salthill shortly after 9 AM & drove to Mr. Dalton's.

The Burren, Black Head & Ballyvaughan Coast Hotel (where had ordered lunch for 1 P.M.). At 2.15 we went on to the cliffs of rocks & spent nearly an hour there & then back to Black Head for afternoon tea. Left Black Head at 6 P.M. & in Salthill at 7.15 in time for high tea.

During the day, I took 18 photos of The Burren, its plants & the cliffs of rocks & we stopped to look at plants & collect at three places, as follows:—

1. = Sandy field near coast at E of Ballyvaughan 10.30-12.0 noon
2. = Salt marsh, etc. behind storm beach, between road & sea, at Poulisallagh. 12.15-12.45 noon
3. = Between road & sea, 1/2 mile S of Black Head. 4.30-6.0 P.M.

Insects taken at 1.

Aspilota subparvula ♂, ant. 20, 1st seg. very small. *Aspilota* ♂, ant. 30.

Aspilota rubripes ♀, ant. 15.

Microgaster 4

Chalcids ca. 18

Beetles

19.6.59. cont. Insects taken at 2. Poulisallagh, CL.

Phaenocarpa fulvipes group ♀, ant. 20, small dark alar spots.

Aspilota ♂, ant. 20. *Aspilota* ♂, ant. 20.

Aspilota ♂, ant. 20. *Aspilota* ♂, ant. 20.

Aspilota ♂, ant. 20.

Aspilota ♂, ant. 20.

Aspilota ♂, ant. 20.

Aspilota ♂, ant. 20.

Aspilota ♂, ant. 20.

Chalcids 2.

19.6.59. cont. Insects taken at 3. Black Head, CL.

Stenomacrus ♂, ant. 20.

Aspilota ♂, ant. 27.

Aspilota ♂, ant. 21: probably taken amongst seaweed near edge of the cliff.

D. cyclops ♂, ant. 27.

D. (G.) affinis ♀, ant. 22, also a larger ♀ with 24-seg. antennae, both these ♀♀ have very bright reddish legs.

Aphidius 2 = *A. affinis* ♂, ant. 19, ant. black spine.

A. affinis ♂, ant. 18, 3 small species of *transversus* group.

Chalcids 4.

20th June 1959. Another all sunny, very hot day, but with very strong southerly wind. Left Salthouse early after 9 AM. & reached Bandon at 6.30 P.M. travelling via Haverhill, Ballinacorney, Long Barrow, Portlaoine, Lathin, Long Teah, Tintern, & Sligo. Stopped to collect at S end of L. Barrow (= 1), & for lunch & collecting near N end of same (= 2) & then ran on to Tintern, where collected after afternoon tea for an hour (= 3).

1

2

3

Insects taken at 1. S end of Long Barrow, EM.

Stictomyia *tripuncta* with green abd.

Pachynotus *clitellata* ♀

Dicranota sp. ♂, ant. 28. like *pumilio* f. ♂? *Perkins* 1962. but palpi not stout or dense!

Cryptids 11: 3 abd. = *deutocryptus* of *gerardianus* group, ♀, ant. 26.

Hamulodes ♂ ♂ + ♀, ant. 24 + 23 (?).

Proctos of *pulchellus* ♀, legs, ant. 23.

Meloboris 4: 2 not mtd.

20.6.59 (1) cont.

Bracon fulvipes 2 ♂♂ + 1 ♀ mtd.

Sigalphus (*floricola*?) ♀, ant. 22: 1 pale leg, ant. 2 abd., legs not mtd. (small head?)

Opius *punctatus* 1 ♀, ant. 28.

Dacnusa areolaris 1 ♂, ant. 27.

♂ (♀) *ichneumon* ♂ 2 ♂♂, one mtd., ant. 21.

Aphidius spp. 4 } none mtd. *Microctonus* *caucasicus* ♀, not mtd.

Proctos 1

Chalcids 2

& a specimen of *Sarcis rufipes* swept by Mr. Dalling in show of lake.

20.6.59 (2) Near N. end of Long Barrow, EM.

Hemiteles = ♀ } one mtd. = *Phygadeuon*? ♀, small, ant. 17.

& 2 other *Leptocryptus*.

Bracon areolaris var. *degenerator* ♂, ant. 25.

Microgaster ♂, ant. 25.

Paphos *granulipes* Th. 1 (♂?), ant. 25: I think the first I have seen from the west.

Aphidius 1

Proctos 1

Chalcids 7

Hamulodes 1 =

24 70 6. 59, cont. *Travels, Co. Sligo.*
Insects taken at 3.

Anten. fulvipes? ♀, red & black abdomen

Cryptinae 2 = *Atractodes*
= *stygia* ♀, red abd., ant. 20.

♂ ant. 23: carrying pollen of *Urtica* on 2nd & 3rd segs.

Orthocentrus? ♂ = *O. f. asper*, small ♂, ant. 22

Promethes ♂ = *not mtd.*

Platystrophia ♀ = *Helictes*? ♀, ant. 19

Aspilota? small ♂ = *B. cf. timellus*? ♂, ant. 24.

Aspilota ♂ 20: not mtd. *Aspilota subfasciata* small ♂?

Euphor 2 = *E. cf. pallipes* ♀, ant. 20 or *E. cf. flavipes* ♀, ant. 19.

Microgaster *minipterus* ♀, small ♂, not mtd.

Centistes *foveolatus* 2 ♂♂, ant. both 20: type ♀ taken at Old Head, NW, on 11/24/5 1942

Opius 4. 7. 1. ♀, ant. 24.

Pentapleura *argentea* ♀, not mtd.

Trachysia *anura* { 1 small ♂, ant. 24.
1 small ♀, ant. 20.
1 large, very red, ♀, ant. 22.

Phaenocarpa *argentea* ♂, ant. 53.

Ph. pinnata ♂, ant. 24.

Aspilota 12 = 11 small ♂, ant. 18.

(8) *Trachysia* ♂, ant. 23 small

(9) *Trachysia* ♂, ant. 23.

(12) *Aspilota* ♂, ant. 18.

(13) *Aspilota* ♂, ant. 18.

(14) *Trachysia* ♂, ant. 24, long narrow red abd. small

(15) *Aspilota* ♂, ant. 18, dark sides, 2nd abd. small

(16) *Trachysia* ♂, ant. 18, long ant.

(17) *Aspilota* ♂, ant. 17.

(18) *Aspilota* ♂, ant. 20, dark sides, ant. 20.

Aspilota *argentea* group 11, including *adducta* (2), *longicauda* (1)

D. melanura 4 ♂♂, ant. 20.

D. melanura 1 ♂ (ant. 20), 1 ♀ (ant. 26).

D. cf. aphanta ♀, ant. 27, head distinctly widened behind the eyes.

Coelinius elegans Hal. ♀, ant. 28

C. cephalotes n. ♂, ant. 50, dark wing, & legs, radius about in middle of stigma!

25

70 6. 59, (13), cont. *Travels, Co. Sligo.*

Euphor *locustorum* ♀, 50th *Aphid.*

Proctos ca 18, including 5 *Euclyptus*

3 only mtd. =

Chalcids ca 30

Saw a few of *M. aglaia* (butterfly)

only took 3 photos (2 mtd., 1. Tall & 1. Small)

21st June. Sunday. Blessed up temp. in forenoon, but after lunch 10th Dalling drove us all to Glenties, Co. Sligo, going up the eastern side & coming home by the western. A windy day (SE) but warm to sunny. Collecting insects impossible owing to wind. Took four photos of some *Urtica* (11 & 12) (13) one of the latter of a patch of *Urtica* *laevigata* (?) growing beside a stream at SE corner of the glen. We stopped at SW corner, near the ruined school, & 10th Dalling & I went up the river bank to the old abandoned mill, where at base of the main cliff to look for plants. Found only two small plants of *Linaria siliata hibernica*, but lots of the rare Zealand *Epilobium palustre*. Everything very dry & plants started on & *Sax. aizoides* not yet in flower. Two mtd. taken on *Cousparia* in fruit of holly? = *Alomyia debellator* ♂ & *Trichocnemis* ♂.

22 June 1959. After rain early & a heavy shower about 11 AM, a very fine afternoon & evening & wind west from SW to NW. Very hot sun from 2 PM onwards & all found a very hot day, but not vegetation much suffering in parks, etc. & difficult even later.

Left Bundoran about 10.30 AM & drove to M. Kelly's near Co. Glenties, & then on to Glenties. There had lunch & then spent an hour at the Waterfall & had a little sweeping (=1). Later drove on to Traalua & had aft tea & did about 2 1/2 hours sweeping, but not very wet after sweeping in shelter, flies & eggs had. During day took 6 photos. I found 36 exposure film & 14 photos in new 20 exposure Kodak camera, of which I brought 2 rolls in Bundoran before starting. Photos taken: one approaching Glenties, on Glenties, at Glenties waterfall, of Glenties & bough, & 2 taken of cottage near Traalua & one from stone. Traalua looking across Lough Beg, to Sherrin League.

22.6.59, cont. Glen below Glen Co. Waterfall, Co. LE. (22)
1.30-2.30 PM

=1. Cryptine 2 not id.
Camptoplegid ♂ not id.
Phygadeuonid ♂ not id. Apanteles ♂ not id.
Opius anthracinus ♂ not id. Taphidius ♂ not id.
Dacnusa areolaris group, including large longistylis, 4, none id.
D. melanocera 1, not id.
D. cf. areolaris, 4, ant. 29, with spiracle of thorax & abnormally developed.
Proctos. 2 Euclyptus 1
Chalcids 2.

22.6.59, cont. Traalua, Co. SL. 4.0 till 6.30 PM.

=2. Insects swept in scrub along track & also in open toward the sea.
Phygadeuonid with yellow washed face & Stenobothrus marginellus ♀, ant. 26.
Cryptine 6: 4 not id. = Pisonotus sp. ♀, ant. 17, also wingless ♂ same sp. ant. 26.
Hemiteles ♂ not id. ♀, ant. 20 = ^{count of apical (sternites) = (Gratiosaphus) sp. ?} ^{from J.E.P. 1960.}
Apanteles ♂, longistylis, ant. 22, black, ant. 22, with a complete subventral, 10.
Proctos. 2: not id. Camptoplegid ♂, ant. 25 =
Dacnusa areolaris 2 ♀♀. 2 on other = D. areolaris v. D. areolaris. ^{100%}
Apanteles ♂ not id. Opius sp. 4 ♂♂: ant. 25 (3), 29 (1).
Pimpla cathartica? 1 ♂, 1 ♀, ant. 28 (♂) & 24 (♀).
Opius areolaris ♂ & 2 others = O. areolaris 2 ♀♀, ant. both 24.

[Chalcids ♂♂ frequent. = C. areolaris (= flavicollis)]

Land taken at 3.

2. *O. gibripes* (Linn?), ant. 26, small example.

2) $\left(\frac{1}{2} \right)$ mode: $\begin{cases} 30\% \text{ ind. } 26, 94(2) = 31 \\ 48\% \text{ ind. } 24, 26(2) = 27 \end{cases}$

also a $\frac{2}{3}$ with pale legs including coxae.

Continued from Vol 27, p 114, 31st Oct 1959.

1st Nov. 1959. A beautifully sunny forenoon after a dewy night, with gentle NW breeze, turning, cloudy - afternoon & then followed by a mild stormy night. Very mild!


In forenoon saw a blanded yellow butterfly, once more in back garden sipping from flowers of Korean Chrysanthemum & watched it for some time.

I believe it was a male! Immediately after it flew away I saw a fresh ♂ *Bombus lapidarius* on flower of *bosmea*. Mr. Wood called in evening & we settled what shrub I would order from the Donald Nurseries.

2nd Nov. Hill fog & drizzle with strong to gale southerly wind opened the day, but by noon both wind & drizzle had abated & the afternoon dry & calmer. On going into the back garden about 2 P.M. I saw a single Swallow fly across & towards the hill. As it flew only about 200 feet over my head I was able to observe myself by its colour & long tail feathers that it was a Swallow & not a House Martin. Spent the rest of the afternoon reshaping the plot just W. of the greenhouse, which embraced moving back most of the *Betula* row, but the two end plants not seriously disturbed.

3rd Nov. to 6th Nov. 1959. Mild, damp, with much hill fog & drizzle & virtually no sunlight. Unseasonable & fresh wind from E. & W. at 11 AM, but for the most part about stillness. During the period I saw many ♀♀ of *Bombus lucorum* seen in windows in house & particularly in garage; also green-headed, which about 30 were seen on 5th struggling in a small spider web. (cf. note under date of 22nd Oct. 1958, & subsequent dates in same year - *Bombus lucorum* & seen on *bosmea*.)

4th - 10th Nov. 1959. Cold & becoming colder during the period with strong & shifting winds. Dry day, with some squally light showers, & after approaching gale force winds from S.W. The cold heavy rain fell on the night of the 8th & on the afternoon we walked round the garden & called on Mr. & Mrs. & found to be in bed & found to be in hospital at Southampton for a small operation. (Mr. & Mrs. are not married however & his parents) just home from 2 years in N. America. He is to come here by ship on a "selected audience" his children taken during a final trip during which he reached a hospital in California. He had spent most of the year at Industrial University. On 10th I planted out a series of *Rhododendron*, *Azalea*, & other plants delivered to previous day by the St. Donald Nurseries, for list of which & where planted see page 36 (over-). On 10th at 6 AM. a fine grey cover with on summit of Sherr Donald - probably hail!

11th Nov. A cold, exterior sunny day - quite warm in sun & shelter! - with very light nearly westerly breeze, after ground frost (for first time!) at night. At noon we visited a ♂ *Bombus lucorum* at flower of *bosmea* in back garden, which looked like the ♂ seen on 3rd Nov. see above. Summit of Sherr Donald very slightly whiter than yesterday, at 8 AM. ^{horizontal} ? due to hail shower. For the last three days, the barograph has ruled ^{horizontal} 29.5 inches & on each of last three mornings about 9 AM. when the sun shone on it the pen dipped & then recovered then making a mark like this . This can only be due to the sudden expanding & subsequent contracting of the mercury in the discs of the barometer, & when the sun moved off these the pen returned to its former place.

12th Nov. After a hard frost, with sleet & water taken frozen a rare fine day with considerable sun & a very light W. wind. Potted plants (2) used to illustrate my paper on Grand Junction beach (1959) to the S.P. Grace for the 13th Nov. where the original drawings have already gone via Mrs. Fitch to Mr. Allen.

13th A severe gale sprang up in the early hour from E, with very heavy rain & fall in barometer. About noon the gale turned & wind backed from E to N. & fell considerably, but drizzle & rain continued all day.

19th Nov. 59. Rain in early part of the night, full moon by 10.00 & very foggy, but rain & pleasant during the day. Wind from SE & rain set in about 10.00. A strong E. wind, reaching gale force in late afternoon & very severe gale in evening. The rain ceased off in mid-evening. But electricity supply failed about 10.00. The power came on again & we not without light a few minutes to eight. 30 miles fall bar. From noon till about 7.00 AM it turned hard & started to rain about 8.30 AM. The gust of wind during the latter period was, I believe, the worst we have experienced since we came from Dublin in June 1956.

20th Nov. Very mild, damp, day, but no rain, & white we have seen in the clouds we could see yesterday. The day to W & NW. Much damage done all over Dublin by yesterday's gale, but we suffered no serious damage in garden.

21st Nov. What yesterday should have been & after a cloudy early period we had a lovely sunny day, but wind actually rose & rain sough & deep. At 10.00 AM I went to the St. Bernard nursery & arrangement with Mr. Wood & chose the following plants, which being delivered at once I subsequently planted. At 3.50 PM. Daisy & I went for a walk via Tullybrannigan Rd. to top of Tipperary Lane & then across the Tullybrannigan Burn & home via the plantation.

Plants from St. Bernard nursery.

Collected 21/11/59					
2	Rhododendron hanceanum nanum	10/6	1	1	0
2	Azalea pontica	12/6	1	5	0
1	" bungonishiki			12	6
1	Rhododendron glaucum			10	6
1	" cilpinense			15	0
1	" repens			12	6
1	Daboecia praegerae			3	6

The two Rhodo pontica & the two Azalea hanceanum were planted in front border along Tullybrannigan Road (see sketch of 27 Nov 1957). Daboecia praegerae planted by path S. of greenhouse & beside the largest birch tree, where also planted.

Planted at NE angle of same plot (see sketch under date 19 Nov. 58) Daisy no. 27 p. 2.

21st Nov. (Sunday). Very wet, with strong S. SE. wind & gale-force gusts after a dull calm dawn & day, night. Rain started soon after 10.00 & continued all day.

22nd - 28th Nov. Mixed weather, but on the whole very nice mild, weather, for the time of year. On 25th I cleared up the back of the house & of garage & transplanted rooted cuttings of *Primula* from back garden to fill up gaps in the hedge, where a *Rosa* (planted 1957) & *Buddleia* (planted 1958) are already. In afternoon I went everything I could in a bonfire! On 26th finished above transplanting the *Primula* & on 27th we went to Brook Cottage & got more cuttings of same & a few other shrubs, while on 28th I put in the cuttings of the *Primula* between the *Hebe* & the *Whin*. The other cuttings going into the greenhouse where various other cuttings recently put in, namely a *Polygala* from Mrs. Wood, a plant from Mr. Black & two from Miss Watt, whose names I don't know.

On 28th found a dead *Primula* in front of electric light in sitting room which had obviously come from Libration in front room, dying before the fire!

4-0

30th Nov. After a frosty night, with freeze rail & ice on tubs in morning, a black belt of clouds drifted in from SE, & melted. snow began to fall about 10:30 AM, & continued all day, with real snow on the hills above 1500 feet. Wind E-SE, very light or variable & calm. A hearty day! 1888

Started to arrange my coll. of Belytinae as named by G.E. Nixon
in accordance with his recent Handbook for the Identification of
the species of the group. (R. Ent. Soc. London, 31/12/1957).

September I finished the arrangement of my coll of Belytinae, named by G. P. J. Nixon & brought home to me last June by H. W. Dalling.

6th Dec 1959. After a fine night & dawn, a depression moved up from S. & rain fell all day with E. & S.E. wind rising to gale on day end & a snow-fall with rain until 10.30 AM.

7th Dec. Continues a severe & steady gale during the period till 6 PM.

8th Dec. In S. the glass rose quickly from a long horizontal depression with wind dropped for first time for 48 hours. Real change & low of 48 hours. Shore of Britain & growth of rain & very light tide but not cold. Very little light rain during midday, in afternoon some light rain & haze mixed with the low clouds.

9th Dec. The gale dropped in barometer began to rise quickly in evening of 8th & quite a fine frost-dew fell before dawn today, after which we had an all sunny, calm day, until sun went behind Thorne at 1 PM. In afternoon an easterly wind rose, a forecast of a day became cloudy, but no rain fell before bedtime.

Snow on St. David nearly gone & snow only lying on the ground NE of the Park.

10th Dec. A dry day with strong cold easterly wind, grey, broken clouds & no sun. Received reply to my inquiry on 10.12.59, from Mr. Peter Whittle of Winkler's Hotel, Kinsara, Co. Galway, concerning my proposed trip west - from W. of Ireland with Mr. & Mrs. Lally.

11th Dec. After a dry night & calm dawn, a S.W. started about 10 AM & continued off & on all day, sometimes light sometimes quite heavy. Transplanted the Jasmine taken from Dorset Lodge in 1957 to position amongst the shrubs in the wiggly

12th Dec 1959. After a very early, in morning light, & very fine day & all sunny till sun went behind Thorne at 1 PM. In afternoon a heavy shower from SW. Gale & thunder wind for this of year. From then rather with some South Western & Pacific. Collected leaf mould in woods.

13th Dec (Sunday). Rain & drizzle with strong gale, with all day, but not cold.

14th Dec. Dry, sunny & cold, with strong S.W. & W. wind.

15th Dec. After a dry & sunny day, but cold & strong westerly wind. Very little rain! In forenoon I cut both front & back lawns & put "Sphagnum" along sill of front downstairs windows & these had looked since the last day summer. In afternoon we walked through the plantation to the Tollymore Park (Bun.) back & collected for cones & sticks.

16th Dec. After a very wet night & dry day & cold in forenoon with moderate W. wind falling light in afternoon. The first *Agrostis* ("Klein") in flower near Gap, near also a few flowers just opening on *Hemerocallis*. *Malva* trees & *Lonicera galearifolia* in flower for some time & leaves of *Calandrinia* (H. Gessner) well up in the trees. In afternoon collected leaf mould for garden & put flower withering on 16.12.59! A.V.S.

The first flower on the *Christus* *Cactus*. (Mr. Patterson's plant!) opened yesterday: the plant has at least 36 flower buds. The older plant (Mr. Kinch's) has also now 20 buds, but the first flower will not open for some days: it was re-potted last August.

17th Dec. A mild day after a wet stormy night, but except for a heavy shower between 11.30 & noon, dry & with sun before & after shower. Collected leaf mould in afternoon.

18th Dec. A very cold, bright sunny day, after further rain & gale at night from W.-NW. Strong to gale winds continued till late afternoon with rapidly rising glass, but about 4 PM. wind slackened & by 9 PM. it was calm. In forenoon I cleared up another portion of the flower beds in front garden. In afternoon we had walk in the plantation & saw some with more leaf-mould. The clearing of roadside ditch below the "Sphagnum" & foresting the almost-wiped-out little colony of *Pinguicula lusitanica*, but one seedling remains.

19th Dec. 29. Very mild, with much hot sun & variable light wind & showers after a very wet stormy night. After the storm, rain must have fallen in showers & S.E. breeze, as the previous rain had settled on 17th, but considerably lighter when the English Bank today. Later clouds came up from S. & E. but still wind became strong to gale, but no rain fell before 10 P.M. ^{10.30 AM. down began about 10.30 AM!}

In afternoon we walked up to the new forestry bridge over the Liffey River & back.

20th Dec. Very heavy rain during night with strong S.E. wind at times clearing about 7.30 AM & fine till 11 AM, when about snow (on high ground) & S.W.-W. gale set in & lasted till evening when rain ceased but gale continued.

Rain left. S.E. breeze gently white down to 1000 ft & snow lying on fields inland to about 500 feet.

21st Dec. Very cold W. wind, but sun in morning & clear stormy night till evening & midnight.

22nd Dec. Rain commenced at 8 AM & continued till 2 PM. Wind backed to S.E. & blew strongly, with some drop in glass, till wind went S.W. & dropped to light about 1 P.M. George & family arrived at 12.30 noon. The afternoon was dry & not so cold as yesterday.

23rd Dec. After a dry & cold night, a cold rather windy day with frequent showers & light bluffs of melted snow on sloping rain. In afternoon Dora & I went to Donard Lodge & collected a few cones.

24th Dec. Quite a nice, cold, sunny day.

25th Dec. Mild but after a cold dry night, a strong snowed & very heavy rain fell in forenoon with S.E. wind. About 2 P.M. wind veered to S.W. & with for one shower at 3.15 P.M. the afternoon was fine, although promised "gales or severe gales around the Irish Sea" by Meteorological Office. The wind here never rose above "faint". George & family left for Ballinacorney in afternoon.

26th Dec. 1929. A cloudy day with strong S.W. wind & some showers. Tell a little more in gathering. Then Dora & I. In afternoon I collected on Mt. Finner. She had recently been in hospital at Donard for an operation.

27th Dec. A fine day, after a wet night, with heavy rain in forenoon, but afternoon fine & we walked up the plantation to get specimens of the cones of a pine I suspect may be *Pinus contorta* of which there is a considerable plantation just below the Ophelia Cottage & the Tullybrannigan Burn. The small cones are borne on the smaller branches & lie downwards, tight against the stem & heavy on the tree for at least two years - the younger cones are light & chestnut - colour, than a year older are blackish. The tree resembles Scotch Pine, but is more upright, & its bark blacker.

28th Dec. A cold day, with shower & strong W. wind, but wind all over in forenoon, after a dry night.

29th Dec. Mild but heavy rain & snowed before dawn & a strong gale with torrential rain till mid-afternoon followed & wind first S. & later S.W.-W. gale continued & glass rose all evening but no rain & a stormy night at 8 P.M. a. But Corbridge left to catch 8.25 bus home. He had been here since 2 P.M.

30th Dec. After a dry night & bright morning, a dry, dull, day & calm till late afternoon, when rain trough, with drizzle around & gale from S. by 8 P.M. mild.

31st Dec. Mild & dull with drizzle & at times strong southerly wind, dropping calm at 10 P.M. Then ended 1929.

1960.

1st January 1960. A very nice, calm, dry day, with wonderful sun up till noon, then more cloudy, after a dry night.

Mild! A pet day between two troughs! (Jan 1st)

2nd Jan. E. wind, rather large & disagreeable from early noon till evening, with wind dropping after about 11 PM. Mild.

3rd Jan. After a dry & calm night, a very fine day with a strong SE wind & very heavy rain & wind ceased at 11 AM. Afternoon a rain mixed with snow, but wind again rose in evening. Mild.

4th Jan. Mild & dull & dry in forenoon, but a drizzle started about 1 PM & a heavy drizzle & rain fell all afternoon & evening. Bolder in late evening.

5th Jan. After a clear & dry morning, a very bright & sunny day, but a cold light W breeze. When the day dawned it was seen that the upper part of Shire Dore & other hills over 2,000 feet were all snow-covered.

6th Jan. After a clear frosty night & a very sunny forenoon, but light haze at 1 PM & some of rain's heat. The afternoon became more cloudy. Cold.

7th Jan. Similar to 6th after a slight frost. Calm & cold. Sun in forenoon & evening as on 5th.

8th Jan. A bright, cold, mainly sunny day, with cold NE breeze, after slight frost early in the night. Transferred *Sax. spathulata* from one rockery as it was being smothered by *Erica medeolensis*, & planted it on border along the house just W of the raspberries. It nearly died in the drought last summer.

9th January 1960. After a dry, cold night & a dry, dull morning, with some short sunbursts & light NE breeze. In afternoon, followed by clear frosty night. In forenoon I noticed that a local plant of *Erica tetralix* in border along Tullymore Road had come into flower.

10th Jan. After a heavy frost (both water & at grassland frozen) & lovely calm sunny forenoon, but afternoon dull with rising NW wind which became strong in evening. Snow on St. Donard reduced to small patches at about 2,500 ft. Behind the Eagle Rock. Snow fell mainly all day in Kent & SE England generally.

11th & 12th Jan. Both days cold, with NW wind & some rain. In forenoon slight frost in night of 11th & 12th. The few snow-patches on St. Donard were on 10th. One bud of *Winter Aconite* along ground on 11th but not open on 12th.

13th Jan. After a fine early morning, with sun & light N.E. breeze, followed by a frosty night. By morning the hills had a light covering of snow down to about 4,000 feet on Shire Dore & probably lower inland. At times during the day daylight was reduced almost to nil!

14th Jan. After a hard frost & a very bright sunny day with light NW wind & no other except in full sun. Small snow patches visible on hills & on St. Donard. Wind in short & patches on some hills.

15th Jan. Milder & no frost during night of 14th & 15th, but dull all day & rain & then a few spots of rain or patches of fine hail fell. Snow lines on St. Donard retreated to about 700 ft. at the old quarry on N. face of 'The Millstone' hill.

16th Jan. Near continuous, mainly dry & dull, but some sun & a little drizzle at times. The snow on St. Donard now nearly all gone below 2,000 ft. & only a thin patchy coating above that. Wind NW.

17th Jan. Similar to yesterday, after a dry night. Slight drizzle in forenoon & afternoon & some sun in forenoon. Sunday!

In afternoon I went & I walked after tea to see how the new forestry road along north face of Brimbley was progressing & found little change since last summer.

18th Jan. A dry, cold day, sunnier & with strong westerly wind, with gusts of gale force. In afternoon I called to see Mr. G. Livers.

48 19th January 1940. After a dry night a slight drizzle started about dawn, but this cleared in afternoon a gale started to rise & almost gale across a wind veered to NW. Later, a snow shower at 4.30 P.M. & a light fall of snow before bed time. In afternoon we walked through the plantation to show the Harbour & home via Donald Lodge, wind strong & very cold & S.P. Donald State down to about 750 feet but only thinly covered with snow. Shien Crook a beautiful night in the late afternoon sun. As noticed on several previous walks the colony of *Pinguicula lusitanica* by the stream between the Glen River & Lindsay's Leap now reduced to one plant & one seedling through clearing of the drain on side of which it grows.

10th Feb 1960. Again dull & chilly, but wind N or W & in a better
 brighter than previous days & a slight drizzle fell from time to
 time. Collected leaf-mould in afternoon & brought home to
 Jans seedling from the woods near General Lodge ruins.

11th Feb. After a cold calm night but no frost & sunny when
 sun about 9 AM & heating in house, light drizzle started
 raining, which followed all day. Below 1,000 feet
 by noon. A cold afternoon followed with a light rain, heavy
 N. wind, but no further snow showers here. Planted a
 seedling, Yew on N. bank of the lake in back garden & a
 few yards W. of garage. The Yew is in the ground
 near ruin of General Lodge. There are several
 "Irish Yews" & perhaps several trees also.

In afternoon we collected sticks!

12th Feb. After a hard black frost & fine cold sunny day. Snow arrived
 about 10 AM & from 2 PM to 4 PM by 4 PM and from 4 PM to 6 PM
 90% of the time has been very frosty, daily & about to go into the hillsides. Hospitals of
 X-ray machine. They arrived back at 8.30 PM, having passed through a
 small snow storm near Birmingham. Several other snow storms passed
 during the night. Wind NE moderate.

13th Feb. Snow day nearly all day, the morning after another frosty night &
 there was quite a heavy snow shower about 10 AM, after which the day gradually
 brightened & from a few sunny afternoon & evening. There was a bit of the back of
 a continued snow of the day. Wind NE light, dropping in evening.

14th Feb. After another frosty night with strong SW wind from before dawn, snow & sleet started
 about 9 AM & continued till about noon with rapidly falling glass. When glass stopped
 falling & the day appeared in west, it gradually approached, so that we had a cold
 rainy morning afternoon when the sun & I walked round the "Tottenham Wood"
 & Lane & home. For the first time this year we forecast too (about 6 PM)
 without having the book on the light.

15th Feb. A better cold day after a frosty night with several snow showers.
 but much quite warm sun in forenoon. In afternoon we had our usual walk
 in the plantation during a snow storm & later collected sticks for firewood.

16th Feb 1960. After another frosty night, sun & rain, but of course rain fell
 before 10 AM. After 10 AM. There was a heavy rain & snow shower & a heavy
 snow, but then fell as a heavy rain, very much rain & snow.

17th Feb. After a dry frosty night & frosty morning, sun till 2 PM then
 a cold rain from W. covered the sun & the light W. breeze
 dropped to calm & later on at 3 PM wind shifted to NW & covered the
 frost for several days except in full sun. A cold day in
 afternoon under the old Outcrops in between General Lodge & the Church.

18th Feb. After heavy drizzle rain for several hours, snow & midnight it
 continued day & shower freezing point here, but sleet fell in snow in the
 hills. About 8.15 AM sleet rain started to fall & then snow turned to
 very heavy rain snow & sleet till noon by which time for 2 to 3
 days everywhere, but in there was no wind. There was no drifting. Later
 we had much more rain & as snow was still before dark.

In afternoon I took 5 photos in a snow field, the first
 shows like the year. But there was very much snow & the sun
 a green wasp (*V. vulgaris*) seen flying around the greenhouse at 2 PM.

19th Feb. A cold day with strong southerly wind after a hard frosty
 night. but much warmer sun up till 2 PM, late cloudy.

20th Feb. After a dry rather windy night (wind S-SW), a dry sunny day
 with considerable thaw, even in shade. There is evening. There was
 seen to NW but none here. In afternoon we collected sticks.

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5th March 1965. After rain, rain before dawn, a blustering day with strong & increasingly cold SE wind. Though forecast mainly sunny. Spent forenoon getting specimens of various insects, slugs, etc. in the afternoon at evening. Home after the St. Bonard Training College had told me he was here for a few days. Field study.

Snow on hills almost gone except for the usual drifts on N. face of Bonard. St. Bonard about 200 ft.

The first flower on *Chionodoxa* just opening & the Andersonian earliest of *Salix cinerea* in flower.

4th March. A dull, but dry, day with strong cold SE wind & hill fog on the higher hills. Not a pleasant day.

5th March. A stormy day with gale force gulls all day after a similar & dry night. In forenoon hills covered with a damp mist on the hills & snow blowing in the wind down to sea level. The after day with some sun, but some party wind.

Daphne blagayana now well in flower after attempts to flower in late autumn & the buds being destroyed by early frost.

The first flower on the *Sax. app.* just opening.

6th March. A dry, cold, dull day with strong SE wind & thick smoke haze, after a similar night. The wind falling, lighter & clearing S. in late afternoon. Sunday.

7th March. Similar to yesterday, but the wind even colder & stronger.

8th March. Snow on St. Bonard now confined to a few small gullies, above & E. of the Eagle's Rock & the big drift on N. face of Bonard. Most reduced, but the big gully on W. side of the col at head of the Glen River showing as a great white almost vertical streak from Newcastle, with a smaller similar streak to left of it. I don't recollect snow lying in these gullies so long before, but they are not visible from Tullybrannigan.

9th March 1965. Started similar to last few days, but at 10.30 a.m. a drizzle commenced. Wind gradually turned to rain, which E-SE wind slightly indicated. Still very cold & rain fell in patch of drizzle including Carriswell & Lyle.

10th March. The wind dropped during the night & after light of the temperature rose & we had a mild day with sun, slight drizzle at times. Wind SE but mostly very light.

11th March. After rain during the night, a cold, drizzly, very mild day, with thick hill fog & "mud" haze down to sea level & generally.

12th March. Another dull, mild day with hill fog & drizzle, followed by a light rain in afternoon & evening. In forenoon drizzle & mist over the hills & rain to Bonard, to Blackabbey.

13th March. After a very wet night drizzle or rain all day with dense hill fog & drizzle in evening wind moved to S. & increased to moderate or fresh & rain returned.

14th March. Another dull, mild day after a dry, cloudy night. Wind blew S. with slight drizzle for most of the day. The first flower open on *Chionodoxa* previous (cold, wet, dark) in first border.

15th March. After rain at night & a dull start, the day cleared & it became almost hot, windy, & very humid. Later hours were became dull & foggy & cooler with a faint E. breeze.

The first (N.) plant of *Spilodactylus* previous with one flower open. In back garden *Phlox alpinensis*, *Sax. app.* from Manchester. *Lil. stylata*, the first *Daffodils* in flower. Also the first *Sax. ranunculifolia* - a seedling 2 years old opposite the 14th in another plot.

- 16th March 1960. Entirely dull after a damp misty night. Still damp, some fog continued till after midday. The afternoon was drier. Solar on with very light sun chiefly early. Glass rising for 36 hours. Spread light top dressing of Sulphate of Ammonia on the terrace of front lawn & then watered it.
- 17th March. After a lot of rain at night & a mild dull day, opening with light drizzle, but dry later, and cold & variable, though light.
- 18th March. After a misty but dry night with strong SE wind we had a dry early forenoon, but rain set in at 12 noon & with SE-S gale fell very heavily without intermission for the rest of the day. Cold, but rain ceased by afternoon & a warm frost from the Atlantic.
- 19th March. After a dry night, rain started at 5 AM & continued unabated all day, with strong to gale E-SE wind. A very wetted day.
- 20th March. A little drizzle but even stronger more westerly wind for most of the forenoon & previous night. In afternoon, however, the wind rose to a gale, with some gusts, then rain fell.
- 21st March. A dry day after a dry night, with some sunshine for the first time for a long time, but the southerly gale, more at times, continued unabated, with cruel effect on many plants just putting out leaves or in flower but both front & back lawns.

- 22nd March 1960. At last! a very nice dry day, with considerable sun in afternoon & sunset at 5.45 PM, after a dry misty night & forenoon. During the period the SE wind gradually fell to almost calm by 6 PM. In forenoon I planted the front two, most valuable, rows of potatoes in main plot. A first row one at the lower end and one 8 rows higher in main plot. A first row one at the lower end and one 8 rows higher in main plot. In the second row one 10 & the remainder of the row are *Wester Blight*. In the third row one 10 & the remainder of the row are *Wester Blight*. In the fourth row one 10 & the remainder of the row are *Wester Blight*. In the fifth row one 10 & the remainder of the row are *Wester Blight*. In the sixth row one 10 & the remainder of the row are *Wester Blight*. In the seventh row one 10 & the remainder of the row are *Wester Blight*. In the eighth row one 10 & the remainder of the row are *Wester Blight*. In the ninth row one 10 & the remainder of the row are *Wester Blight*. In the tenth row one 10 & the remainder of the row are *Wester Blight*. In the eleventh row one 10 & the remainder of the row are *Wester Blight*. In the twelfth row one 10 & the remainder of the row are *Wester Blight*. In the thirteenth row one 10 & the remainder of the row are *Wester Blight*. In the fourteenth row one 10 & the remainder of the row are *Wester Blight*. In the fifteenth row one 10 & the remainder of the row are *Wester Blight*. In the sixteenth row one 10 & the remainder of the row are *Wester Blight*. In the seventeenth row one 10 & the remainder of the row are *Wester Blight*. In the eighteenth row one 10 & the remainder of the row are *Wester Blight*. In the nineteenth row one 10 & the remainder of the row are *Wester Blight*. In the twentieth row one 10 & the remainder of the row are *Wester Blight*. In the twenty-first row one 10 & the remainder of the row are *Wester Blight*. In the twenty-second row one 10 & the remainder of the row are *Wester Blight*. In the twenty-third row one 10 & the remainder of the row are *Wester Blight*. In the twenty-fourth row one 10 & the remainder of the row are *Wester Blight*. In the twenty-fifth row one 10 & the remainder of the row are *Wester Blight*. In the twenty-sixth row one 10 & the remainder of the row are *Wester Blight*. In the twenty-seventh row one 10 & the remainder of the row are *Wester Blight*. In the twenty-eighth row one 10 & the remainder of the row are *Wester Blight*. In the twenty-ninth row one 10 & the remainder of the row are *Wester Blight*. In the thirtieth row one 10 & the remainder of the row are *Wester Blight*. In the thirty-first row one 10 & the remainder of the row are *Wester Blight*. In the thirty-second row one 10 & the remainder of the row are *Wester Blight*. In the thirty-third row one 10 & the remainder of the row are *Wester Blight*. In the thirty-fourth row one 10 & the remainder of the row are *Wester Blight*. In the thirty-fifth row one 10 & the remainder of the row are *Wester Blight*. In the thirty-sixth row one 10 & the remainder of the row are *Wester Blight*. In the thirty-seventh row one 10 & the remainder of the row are *Wester Blight*. In the thirty-eighth row one 10 & the remainder of the row are *Wester Blight*. In the thirty-ninth row one 10 & the remainder of the row are *Wester Blight*. In the fortieth row one 10 & the remainder of the row are *Wester Blight*. In the forty-first row one 10 & the remainder of the row are *Wester Blight*. In the forty-second row one 10 & the remainder of the row are *Wester Blight*. In the forty-third row one 10 & the remainder of the row are *Wester Blight*. In the forty-fourth row one 10 & the remainder of the row are *Wester Blight*. In the forty-fifth row one 10 & the remainder of the row are *Wester Blight*. In the forty-sixth row one 10 & the remainder of the row are *Wester Blight*. In the forty-seventh row one 10 & the remainder of the row are *Wester Blight*. In the forty-eighth row one 10 & the remainder of the row are *Wester Blight*. In the forty-ninth row one 10 & the remainder of the row are *Wester Blight*. In the fiftieth row one 10 & the remainder of the row are *Wester Blight*. In the fifty-first row one 10 & the remainder of the row are *Wester Blight*. In the fifty-second row one 10 & the remainder of the row are *Wester Blight*. In the fifty-third row one 10 & the remainder of the row are *Wester Blight*. In the fifty-fourth row one 10 & the remainder of the row are *Wester Blight*. In the fifty-fifth row one 10 & the remainder of the row are *Wester Blight*. In the fifty-sixth row one 10 & the remainder of the row are *Wester Blight*. In the fifty-seventh row one 10 & the remainder of the row are *Wester Blight*. In the fifty-eighth row one 10 & the remainder of the row are *Wester Blight*. In the fifty-ninth row one 10 & the remainder of the row are *Wester Blight*. In the sixtieth row one 10 & the remainder of the row are *Wester Blight*. In the sixty-first row one 10 & the remainder of the row are *Wester Blight*. In the sixty-second row one 10 & the remainder of the row are *Wester Blight*. In the sixty-third row one 10 & the remainder of the row are *Wester Blight*. In the sixty-fourth row one 10 & the remainder of the row are *Wester Blight*. In the sixty-fifth row one 10 & the remainder of the row are *Wester Blight*. In the sixty-sixth row one 10 & the remainder of the row are *Wester Blight*. In the sixty-seventh row one 10 & the remainder of the row are *Wester Blight*. In the sixty-eighth row one 10 & the remainder of the row are *Wester Blight*. In the sixty-ninth row one 10 & the remainder of the row are *Wester Blight*. In the seventieth row one 10 & the remainder of the row are *Wester Blight*. In the seventy-first row one 10 & the remainder of the row are *Wester Blight*. In the seventy-second row one 10 & the remainder of the row are *Wester Blight*. In the seventy-third row one 10 & the remainder of the row are *Wester Blight*. In the seventy-fourth row one 10 & the remainder of the row are *Wester Blight*. In the seventy-fifth row one 10 & the remainder of the row are *Wester Blight*. In the seventy-sixth row one 10 & the remainder of the row are *Wester Blight*. In the seventy-seventh row one 10 & the remainder of the row are *Wester Blight*. In the seventy-eighth row one 10 & the remainder of the row are *Wester Blight*. In the seventy-ninth row one 10 & the remainder of the row are *Wester Blight*. In the eightieth row one 10 & the remainder of the row are *Wester Blight*. In the eighty-first row one 10 & the remainder of the row are *Wester Blight*. In the eighty-second row one 10 & the remainder of the row are *Wester Blight*. In the eighty-third row one 10 & the remainder of the row are *Wester Blight*. In the eighty-fourth row one 10 & the remainder of the row are *Wester Blight*. In the eighty-fifth row one 10 & the remainder of the row are *Wester Blight*. In the eighty-sixth row one 10 & the remainder of the row are *Wester Blight*. In the eighty-seventh row one 10 & the remainder of the row are *Wester Blight*. In the eighty-eighth row one 10 & the remainder of the row are *Wester Blight*. In the eighty-ninth row one 10 & the remainder of the row are *Wester Blight*. In the ninetieth row one 10 & the remainder of the row are *Wester Blight*. In the ninety-first row one 10 & the remainder of the row are *Wester Blight*. In the ninety-second row one 10 & the remainder of the row are *Wester Blight*. In the ninety-third row one 10 & the remainder of the row are *Wester Blight*. In the ninety-fourth row one 10 & the remainder of the row are *Wester Blight*. In the ninety-fifth row one 10 & the remainder of the row are *Wester Blight*. In the ninety-sixth row one 10 & the remainder of the row are *Wester Blight*. In the ninety-seventh row one 10 & the remainder of the row are *Wester Blight*. In the ninety-eighth row one 10 & the remainder of the row are *Wester Blight*. In the ninety-ninth row one 10 & the remainder of the row are *Wester Blight*. In the hundredth row one 10 & the remainder of the row are *Wester Blight*.

4th April - A lovely forenoon, turning dull & windy in afternoon, with gale.
A heavy rain from SE from 5 P.M. onwards. Completed planting of potatoes!
2nd row of Golden Wonder in main plot! Laid out & sown halfpuff in garden.

11/4/60. early. This Josephine Borden, 20 years, sent to the East mission of her mother's generation. She told me she was born in the former country, Dublin. She could have been 90 and still young. She lived about 90.

12th April 1960. After another very wet night, a mild day, with light drizzle blowing in the heavy S.W. wind, rain all day, but I got some sun in the afternoon.

13th April. After being rain & strong S.W. wind at night, very severe squalls all day, with hail, sleet & rain & intermittent sunny periods. A dreadful day for all shores, especially those where there are only just out, such a wonder.

14th April. The storm continued all night & most of today with the wind W. to NW. Gusts up to 76 M.P.H. recorded yesterday in various parts of W. Ex. Except for the wind, which began to die down in afternoon, this was a bright sunny day, with a few light showers.

15th April. A calm day! Blandly in forenoon, mainly sunny, at late afternoon, with drizzle or hills in distance, but virtually none at the level. Wind light west early, then later but equally cold. Finished making up S.W. corner floor of greenhouse in forenoon, watered paths in wazzy in afternoon with 4-4-5 selective weed killer. Good Friday!

16th April. A beautifully sunny day, with keen sun (E) breeze after about 10 at night. Frost & hail, less for the day.

17th. Easter Sunday. Sun all day from rise till sunset. Not a cloud! Wind very light southerly, but cool after a clear night with up to 17° frost in England (Shropshire), but none here. In afternoon we took tea & biscuits & walked to Loughborough across the moor & home via the plantation. Bombus agrorum ♀ first seen in roadside.

18th April 1960. This opened a contrasting day, with light, cool, mostly breezy, but became cloudy in afternoon & light drizzle around at 5.30 P.M. & continued till dusk. During the day, Rhododendron & other plants in flower or coming into flower & the fruit of flower upon in some garden places (but for honey). The White going to flower for first time, the second of flower buds on it.

19th April. Another day, with sun, midday, but cloudy morning & evening. In evening Daisy & I prepared various tax statement for year ending 6th April 1960, which I will leave in Bank tomorrow.

20th April. At 8 AM light drizzle resumed after a fine night & at intervals up to noon there was drizzle at intervals with sunny haze. The afternoon was mainly sunny, but wind strong & cool.

In forenoon I delivered our statement of income tax to Mr. Patterson at Provincial Bank for transmission to Dublin Head Office.

21st April. A fine dry day, after a dry night, mainly sunny with keen NW. breeze. Spent forenoon building dam on burn to form reservoir for 2nd pool & pipe to pool closed with mud & sand. Dam in action for some months.

Saw first Small White Butterfly in back garden at noon. In afternoon cut first lawn with mower lowered to cut it closer & took six barrow loads of grass off it.

22nd April 1960. An entirely dull, cold day, with keen W. breeze; dry, except for very light drizzle between 8 & 9 AM.

23rd April. A sunny day, mainly sunny day, with light NW breeze, after a dry night. In afternoon we visited the garden of Mrs. L. Naughton, Bangor, just Road, where garden is open to visitors to help support Trust & some other things.

The garden slope from the road to Shire's vine, is beautifully kept & beautifully laid out, with several very nice flower beds. In the garden there were a lot of St. Lawrence's along the main house, some beautiful double white ones of which the thing was a magnificent *Camellia reticulata* about six feet in height & a full flower. The red flower of this species are seen double & about size of an afternoon tea cup. Took several photos & quite

Speckled Wood Butterfly seen at Mrs. L. Naughton. (1/2/60)

24th April: Dry & mild dull with chilly drying wind from N-NW.

25th April. Another dry mainly dull day, with N-NW breeze. *Camellia reticulata* with a few flowers on it for about a week & several *Primula scotica* also in flower.

26th April. Very hot sun all day with keen breeze, first NW, later E. Very hard on seedlings & small plants & had to begin watering in evening to save some *Primula scotica*. The *Linum catharticum* from yellow Corrie, Mid Perth, has one flower bud; *Cerastium alpinum* in flower. Saw Speckled Wood & Small White butterflies & a little *Vespa austriaca* (or *rufa*) ♀ in back garden.

27th April 1960. Another all sunny, bright day. Everything very dry & hot & a little wind from NW. *Camellia reticulata* with a few flowers open - for the first time since we came to Bangor. Harvested the first planted ones of potatoes for fear of frost in this row well up. Put stakes for *Primula* & *Camellia*.

28th April. Another all sunny & bright day, after a white frost.

29th April. Another sunny day, but a bit of drizzle in the morning. Had a very frost during night. But in forenoon it was again all sunny in afternoon & evening. Very much less frost than 28th. Saw a few *Primula* in garden, but too dry to examine & cold there, except on *Primula scotica*. A lot of *Primula* *scotica* (2) picked up a full in previous day - 28th.

30th April. After quite a severe frost & frost - which threatened all the early potatoes that had got their nose out again & raised most of the *Camellia* now in flower - we had another all sunny day, with NE breeze & cold breeze. Nothing - very of seedlings, etc. growing but many plants coming into flower including *Chelidonium*, *Viola repens*, *Euphorbia helioscopia*, *Geranium robertianum*, *Viola*, *C. rigida*, *C. divisa*, *C. pulchra*, *Viola p. austriaca* & all the native forms of *Primula* *scotica*. Many *Primula* *scotica* seen about these days & 2 *Primula* *scotica* seen above greenhouse. Park in afternoon.

1st May. After a dull night, without frost, a cold & dry day with considerable periods of sun. Wind NE. In afternoon we walked through the plantation to the Tullybrannigan Burn & home by a different route. Saw a few of *Primula* *scotica* bushes in one spot W. of the burn, not far below angle of plantation boundary wall & back of the house a bit to the right & grows. *Salix* (type) & white willow in front border with a flower out. On moor saw *Scirpus caespitosus*, *Sedum rupestris*, & *Empetrum nigrum* in flower.

2nd May 1960. A dry, day, but with some heavy, dull & rain in the night. Wind light S.W. "Swallows" of some sort seen at breakfast time on Shinn Road. But not seen later.

3rd May. After slight drizzle during night & fine day with much hot sun & some clouds passing. "Swallows" again seen. Doing in back garden. *Geleia verna*, brought from the Burren last year with a single flower open. Orange tip butterfly seen on golf links Shinn Rd.

4th May. After some welcome drizzle during night & mild, milky day with hills covered, but occasional sunbursts. Towards dusk the wind increased to fresh & a slight drizzle started at 8 P.M. Wind shift S-SW all day, but with change. E or SE. Everything looking fresh although the rain did not settle with the soil last night.

5th May. Two Swallows seen & definitely identified. After a little further rain early in night, a very nice warm day with much hot sun & some shaded spells & a slight shower about noon. Flowers on *Arum maculatum* in front garden on *Pinguicula grandiflora* in back garden. *Rosa lucida* alt. 23, on *Silene* in back garden.

6th May. After a dry night, a day of change, with hot sun & clouds & slight drizzle occasionally blowing in the SW breeze - or with E. onshore breeze at times. *Cardamine hirsuta*, *Oryza Vacc. vitidiosa* in flower; also *Lycium alpinum* & *Silene acaulis* from Snawdon now full out. In evening had a visit from Stanley Shiller, Bob Carlisle & Roy Palmer, who had been at Shinn's House for a few days with students from Stranmillis Training College, Belfast.

7th May. A very hot very dry day, after a dry night with a drying SE wind night of day. *Potentilla anagyris* in flower. *Callithrix* *barbata*? *C. corallina*, *C. myzomela*. Many House Martins seen in evening, as were some local birds have arrived.

8th May 1960. After a misty morning, a slight drizzle occurred over & then clearing the day, which increased about 5 P.M. into a heavy drizzle, with wind, & very warm. In evening (Sunday) I went to about 2 hours to the General Services with W. Wood. Amongst many plants we saw a few I should like, the white form of *Pteris caudata* & *Rhododendron roseum* were especially desirable.

9th May. Everything much improved in garden, but night rain & a cold wind into the night. Started to transplant with a few things for flower of garden & to garden. I found that *Agrostis* spp. 2nd, 3rd in garden had begun to flower. Had no root, relation, at all - quite green & some roots had produced flowers. The rain set in evening but a few hours of sun in afternoon. A fine day of 12 good days to follow.

10th May. As promised by rain on 9th, the day was a perfect day, though misty. Planted out the *Agrostis* (and 1st) which had been in the house since Oct & had flowered continuously for about 3 months & still in flower (but date of first flower not noted).

11th May. A dry day & hot & sunny till noon, when it went back down, but after that a change seemed imminent, but no rain fell till nearly midnight. Spent evening with W. & M. & M. at corner of Shanahan Drive. He gave me 2 *Saxifraga*, but did not know their names. I think one is a *Crucian* group species. One Swift seen in evening for certain.

12/5/60, cont

25th May. A nice sunny day with warming of ground
frost but we did not get on, frost here.

72 continued
 27th May 1960. Mr & Mrs H.W. Daltry arrived at
 in Dublin with car - preparation for our western trip
 which starts on (Monday) 30th.

A nice day of sun & cloud, warm & dry.
 28th May. Warm but sun but cool variable breeze & no sun
 like yesterday. In afternoon Mr Daltry drove us all
 to Rosallan, Sligo to see the Rhododendron & Azalea
 & other plants collected by the late H. Daltry, Major & now
 under care of National Trust for N. Ireland. I had not seen
 the garden since about 1910 when I was there with B.N.F.P.
 excursion. At that time of the present garden only the original
 rock garden existed & today I was unable to identify it but
 thought it to be a part shut off & not open to the public.

Took 4 photos. Which have seven exposures available
 on the present roll of film (Kodachrome).

29th May. A fine dry sunny day (Sunday). Preparing
 for western trip & packing.

Western Trips 1960.

30th May. With Mr & Mrs H.W. Daltry - the former driving
 left Newcastle at 8.50 A.M. & travelling by train
 Dundalk, Limerick, Kells, Mullingar & Meath we
 reached Athlone about 1.15 P.M. & crossing the Shannon
 from N. to Hodson Bay Hotel on Long Red Rd.
 for lunch. After lunch Mr Daltry & I did a
 little sweeping (1) on shore of Long Red & (2) on cut away

30.5.1960 cont. Hodson Bay - L. Rec Co. RD.
 Bay, inland of the hotel. Here took 2 following in
 taken at 1 (on the shore S. of pier at hotel)

- Dolerus princeps* ♂ *Chrysomelids* ♂
- Pteronidea* (not etc) ♂ *Scaphisoma* ♂
- Oniscus* ♂ *Phyllon* ♂
- Leptis* ♂ = *Leptis* ♂
- Phygadeuonid* (small) ♂, ant. 24, very dark legs
- Microgaster* ♂, ant. 26
- Hemiteles* ♂, ant. 24.
- Mesochorus* ♂, ant. 24. NB. I have usually taken the species
 in the south of Ireland.
- Helorus* ♂, ant. 23.
- Bracon* ♂, ant. 28. *B. areolaris* ♂, ant. 25.
- B. grandis* ♂, ant. 32. *Acodius* ♂
- Pentapleura* ♂, ant. 20 & 21.
- Opius* ♂, ant. 23, dark wings. *O. nigris* ♂, ant. 24.
- Diapriid* ♂, ant. 21. *Diapriid* ♂, ant. 21.
- Praon* ♂, ant. 15. *Aspilota* ♂, ant. 19.
- Proctos* ♂, ant. 19.
- P. albipes* ♂, ant. 19.

Nixon in letter 21.10.1960 says "I collected
 what he calls *Opius* ♂, ant. 23, dark wings, but the legs are
 brown, not like *Opius*, but the legs are very pale
 for this sp. as you say. So all the same, it is pretty
 well isolated from *Opius* ♂, ant. 23. PS "The head of the
 specimen is just falling off, it was loose when it
 arrived. I have stuck it down as best I can"
 G.E.J. Nixon.

Graptophyes ♂, ant. 18.
Hemiteles ♂, ant. 18.

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30.5.60 cont. Hudson Bay, R.O., cont.

Taken at 2 (mostly off bird, others, & on cut away log.)

Trichostema pallipes ♀, ant. 31.

Euphorbia pallipes ♂ ant. 24. *E. carinifera* ♀, ant. 19.

Staphylinus 5. none mtd.

Dolichopus niger ♂

31st May '60. A very nice day, but mainly dull till

about 3.30 P.M., after which mainly sunny & very warm.

Left Kinsara at 10 A.M. - 2000 Daltry driving - & down S

via Turlogh & Derrinquin & then via Kilgobbin,

Lindisfarne & E slope of Slieve Donard, down the

Baher valley & home via Black Head & Ballyvaughan.

Stopped to move the flora in Slieve Donard, S of Daltry

Hill; next stopped at Turlogh & spent an hour in

bed of the dry lake, but found it Derrinquin, stopped

several times between Lindisfarne & the coast & finally

had afternoon tea about 1 mile S of Black Head, where

spent the evening & saw the main Summer flora to perfection.

Nestling insects seen at Slieve Donard & S of Black Head

but well in need. *Geometridae* seen here & there still on

Heath, but mainly in need. *Manduca* seen very few.

31.5.60, cont.

The Bannock Co. Glass cont.

75

& frequent S of Black Head, where also saw *Thalictrum minus*,
Sax. hypnoides (one clump), *Sax. "stellata"* (common near coast),
Arenaria rupestris, *Corostema canina*, *Galium sylvestre*, *Gentiana verna*,
Geranium sanguineum, *Rubia perigrina*, *Asperula cynanchica*,
etc. etc.

Saw a little sweeping here & there, chiefly at Slieve Donard & Derrinquin,
& took the following insects: -

The Bannock Co. Glass, 31.5.60.

Phaenocarpa (gen. sp?) ♂ ant. 20. Also another ♂, not mtd. 2 spec. at sp.

Trypeta 4. none mtd.

Exochus of *incisa* Th. ♂, ant. 28.

Rogas modestus ♂, ant. 22. } small dark species, small ♀, ant. 22, smooth flange, etc.

Opuntia sp. ♀: not mtd. *Opuntia ruficornis* ♂, ant. 25.

Euphorbia 3 = cf. *pallipes*, but very small! 2 ♂♂ (ant. both 22), 1 ♀ (ant. only 20.)

Aspilota maculipes group: 6 minute ♂♂, ant. 17.

Pentapleura: not mtd.

Pentapleura:

Chalcids:

Scaphy = *Chalcids*

} none mtd.

Took several photos during
the day & finished folder of
20 exposures.
Posted it on 1st June.

1st June 1960. A day of thick drizzle with SW. wind & no sun. Mild & damp.

Left Kinsara & drove to Gort (all in S. Galway) thence W. to Ballyvaughan Lough & N. to townland of Knockanure in Co. Clare, to see the great area of *Potentilla fruticosa* I & E. S. A. B. Byrne discovered in Aug. 1955 & found it just in bloom & by the roadside at same place (W. of road) came on *Vicia stagnina* (?) with other interesting plants.

Thence by Rinnamanone Lough, W. to Ballyvaughan & round W. side of Inchequin Lough, where had lunch in car. By Rinnamanone I collected *Carex lepidocarpa* & a small yellow Sedge (?) *C. lomacanthus* & saw *C. ludoviciana* (white), *Cladium* & many other sedge & reed plants, but did not see *fruticosa obtusifolia* seen here in 1955. From Inchequin I W. for a couple of miles & then turned N. on Kilfenora road E. to town of Leamaneh Castle & N. to Ballyvaughan. Stopped in water near Ballyvaughan & investigated sedge, etc. W. of road there saw much *Artemisia* ssp. *Sax. hypnoides* & *Cerastium arvense* (with common flowers). From Ballyvaughan we turned W. to lane inland of Harbour Hill House to look for *Ophrys muscifera*, N. of Ballyvaughan House & W. of lane but failed to find any, though we saw *Orchis quadricolor* & var. *chellii* Griseb.

16.60, cont.

The Burren, Co. Cl., cont.

After cup of afternoon tea drove down to Kinsara where we arrived at 2.45, having covered 67 miles during the day. The terrible collecting of insects all day!

2nd June 1960. After a damp night, very fine, warm, mainly sunny day.

Left at 9.15 AM. Drove to Kinsara, at 9.30 & drove via Ballinacorney to Turlough & on a mile to S. where the road crosses through a rocky gorge (200 yds. deep) known as the "Kyl-an-Pass", where much *Mercurialis perennis* on both sides of the road at foot of the cliffs: rocky sides clothed in *Dryas* & *Fly Orchis* (*O. nigrifera*), *Gentiana verna* & *Scilla* in crevices in rock. Here we saw a call of the *Mercurialis* for Dr. B. B. B. & a note for the *Stigmatalia*. Thence we drove across country to Linnamane & on to the coast at Portlough where had lunch & collected specimens of a very green grass? (*Festuca ovina*) & saw *Samolus* & *Statice transsylvanica*. After lunch we drove N. & stopped on sandhills at Fanore till 4.30 P.M. & had afternoon tea. Finally we stopped on way home about 1 mile E. of Ballyvaughan, below Loughaun Hill, & went down to the sandy fields

2.6.60, cont. — The Barron, CL, cont.
where saw lots of *Gentiana verna* (some white & flowers)
Arabis *hirsuta*, & many common plants.

Swampy wood on the sandhill at Faversham & here
took the following: —

Sandhill at Faversham, S. of Colchester, CL.

Phygadeuonid ♂, ant. 23 =

Pezomachus instabilis ♀, ant. 20, small.

Atractodes sp. 2: one ♂ only mtd., ant. 22.

Bracon sp. ♂, black, small, very tiny, short ant. 24, 25, 26, 27.

Apanteles sp. 1 not mtd.

Proctos of *caudatus* or near this, 1 ♀, ant. 25, but basal antennal
segments 3 & 4 much shorter than ♀ compared by Graham with Thomson's type!

P. cf. caudatus 6 ♂♂ (ant. 26, 27, 28, 28 & 30), 3 ♀♀ (ant. 23, 23 & 25). variable!

Aspilota *maculipes* ♂, ant. 18. *A. (Synaldis)* ♀, ant. 21.

Chalcid *virginiana* 2 ♂♂: one mtd., ant. 22.

Colletes *validus* ♂, ant. 11. *Praon* ♂, ant. 11.

Chalcids none mtd.

Proctos none mtd.

3rd June '60. Left Kimeria at 9.30 AM & drove via
Galway to Rosscabill where called on Mrs Gough
for half an hour & then on to Liscannore, where searched
in vain for the reported *Erica mediterranea*, but saw only
Calluna & *D. alba*, which latter I suspect is the plant
intended. Next drove N. to Mason Bridge where called
in the ward at SE. angle of the bridge before & after
lunch & here took the following insects: —

March at Mason Bridge, WM.
12 noon till 1.30 till 2.0 P.M.

Euclyptus sp. ♀, not mtd.

Cryptus 3 = *Hemiteles* ♂, small, ant. 19.

Hemiteles " ♂, large, ant. 24.

Acrothorax *quadripennis* ♂, ant. 28.

Zootaphus sp. 2 ♀♀, ant. both 20; one much larger & wider than the other!

Hemiteles sp. ♂, none mtd.

Ichneumon 3: none mtd.

Bracon of *hispitator* = ♂, ant. 31.

Oncophanes cf. *minutus* 1 small ♂, ant. 22. (cf. *O. lineator* AWS.)

Aspilota *rufipes* ♂, ant. 34.

Microplitis *mediana* ♂, ant. 24.

Opius 5 = *O. nudi* ♀, ant. 28. *O. cf. nudi* ♂, ant. 25. *O. caesus* 3 (not mtd.)

Pentapleura *argentea* ♀, not mtd. *Dacnusa* *tesmisi* ♂, ant. 31.

D. elegantula 2: 1 mtd. in ♀, ant. 27.

Dacnusa *curtipalpis* ♀, ant. 31. *D. (R.) cf. areolaris* ♀, ant. 20 (nodal cell very long & narrow
as in *D. (R.) cf. areolaris* AWS.)

D. (P.) obscura ♀, ant. 27. *D. (Hymenoptera) crassipes* sp. n. type! ♀, ant. 25.
AWS, 2.10.1960.

D. (H.) *obscura* ♂♂, small, slender, 5 per ♂♀

Chalcid *virginiana* 3 ♂♂

Praon 3.

Chalcids

Proctos

water bugs.

5th June '60. Sunday

In forenoon only walked to Old Head Point & home through the wood. Collected *Sagina* on the pier wall & more moss for the Fitzgeralds.

In afternoon drove to Daltry to Alice Wallace at Daltry, via Killybeggs, & the Cruff Valley. Collected Bryophytes for the Fitzgeralds in wet oak wood at Daltry, where much *Hypnum* *petitum* (= *viridius*) on rocks & tree trunks.

In forenoon took a large *Alysia* (*Alysia macrogyna*!) off under side of Sycamore leaf at Old Head Hotel. In afternoon a ♂ *Calocleptus nigricornis* (ant. 27) in water.

6th June '60. Drove to Buncrana, S. of Glenties, & searched in rain for Praeger's recorded *Alysia pyramidalis*: swept a few insects in fallow, in marsh around S.W. corner of small lake: —
Cryptine ♂, ant. 22 =

Bracon communis 1 ♂, 1 ♀, ant. 29 & 27 respectively.

Opius pendulus 2 ♂♂, 1 ♀, ant. all 19.

Praon } Not id.
Chalcid }

6.6.1960 cont.

After lunch Buncrana drove on to Brigganore's Pond, etc., & Mr. Daltry & I walked for E. and found 5 clumps of *Briza media* but rough, which we saw and supposed *Briza media* but only a few bits in bud, but only about 3 clumps of *Briza media*, some *Encyonema*, *Lolium* & one patch of *Briza media* same as last year. Then drove home via L. Fresh.

In evening Alice Wallace showed us *Hypnum* *petitum* in the wood behind the hotel at Old Head. Collected Bryophytes at Brigganore Lough, & in wood at Old Head in evening.

7th June '60. Drove to Tullaghan = Doonaghty of AWS. to R.H. Praeger in 1. Net & The Botanist in Ireland but shortly after our arrival wind backed from SW to SE & increased, rain came on & lasted throughout the night (1.57 miles fall at Old Head during the 24 hours ending 9 A.M. on 8th). Collected Bryophytes on sand & rocks & helped look for *Gentiana verna* which Mr. Daltry believes he collected seed heads of on 14th June 1959 & which plant Alice Wallace says she visited about 5 years ago said they had seen here. Stayed in house all afternoon & evening. In Buncrana near Old Head took a ♀ *Chalcid* (Phygadeuonid?).

8th June '60. Heavy rain at intervals till 1 P.M. but then slowly afternoon & evening. Left Old Head at 9.50, passed Buncrana at 11.30 & reached Enniscrone, Co. Sligo, at 12.15 & had lunch in car. Later in fine weather drove on to Sligo via Easkey, Ballyvaughan to Sligo & then to Trillick, Coliffony where stopped for a couple of hours collecting & had afternoon tea. Arrived at Sherry House Hotel Buncrana East Donegal at 5.15 P.M. Took the following insects at Trillick, Co. Sligo.

8.6.1960, cont. Trawslaw, Co. Sligo, 3.0 till 5.0 P.M.

but most in scrub by path to sea for entrance gate below bliffoing.

Euphranta connexa? sp.? (sp. at sp.?)

Triclistus pusillus 1 ♀ (= *pumila* Smith.)

Phaeogenes (*Proscus*) *suspiciosa* ♀, ant. 21

Graphomyia 13: 5 mtd. = *Phygadeuonid* ♂, ant. 24 =

Idiolispa analis ♂, ant. 30.

Pezomachus large black & red species, black orbits, long 3rd ant. seg., high ridge on propodeum, ant. 20.

Pez. small sp. ant. 18 =

Nemiteles? small ♂, ant. 20 =

Nemiteles? small ♀, not mtd.

Proctos: not mtd.

Homocidus: not mtd.

Mesochorus 2

Parasitoid ♂, not mtd.

Mesochorus sp. small ♀, ant. 25.

Camptoplegid 6: 3 mtd. = *Basiaenia ischnogaster* H. ♀, ant. 31.

Angitia chrysosticta? ♂, ant. 30.

Holocremna? ♂, ant. 28.

Adelius pusillus ♂, ant. 14. 6 ♀ taken here on 10.7.1936.

Bracon ruficornis m. ♂, ant. 38.

Apanteles 5: none mtd.

Euphorus cf. *pallipes* 1 ♂, ant. 24, legs rather dark, stigma bicoloured.

Embryon *extensor* ♂: not mtd.

Calyptra tibialis ♂, ant. 30.

8.6.60, cont. Trawslaw, 2h, cont.

Brachymeria *capitata* ♀, not mtd.

Bracon 6: 5 mtd. = *B. ruficornis* m. ♀, ant. 20.

= *paganus* 20.50 (ant. 18 & 19), 29.7 (ant. both 17).

Opius 10: 6 mtd. *O. caesus*, several not mtd. *O. semi-irregularis* ♂, ant. 25.

O. irregularis ♀, ant. 24. *O. cf. elongatus* ♂, ant. 25, 14 (ant. 24).

O. cf. levius, small ♂, ant. 24: possibly the sp., but?

O. cf. instabilis Nixon, terminal ♂, ant. 24: very badly mounted!

Pentapleura pumila? very small, very black, ♀, ant. 19.

Phaeogenes *infuscus* ♂ *cf. confusus* small ♀.

Orthostigma pumila ♀, ant. 20, rust tinge.

Aspilota 20, all mtd. = *A. (Synaldis) ruficornis* 20.50. *A. tumida* m. 10.7.19, ant. both 17.

A. pygmaea sp. n. ♀ (4.4.60) ant. 14. 20.50 (allatopis? *pygmaea*), ant. both 15.6.60, with slender ant. segments, etc.

A. cf. insidiosa, a minute ♂, ant. only 14. *A. cf. fusca* m. ♂, ant. 23; also ♀, ant. 19.

A. dentiformis, 2 observed ♂♂ with scarcely dentate first femur, ant. 19 & 20; also ♀, ant. 18.

A. cf. ruficornis, 1 ♂, small, ant. 23. *A. cf. alb.* small ♀, ant. 20.

A. cf. nemoralis 2 ♀♀, ant. both 18. *A. cf. ?* 2 small ♂♂, ant. 17 & 21.

Zaenura diecta 3: not mtd. *Z. cyclops* 2: not mtd.

S. argentata 3: 1 ♀ mtd., ant. 28.

D. fallax ♂, ant. 36.

D. persimilis Nixon, ♀, ant. 26.

D. calliope Nixon, ♂, ant. 29.

D. bellina ♀, ant. 26.

Coelinius elegantulus 2 ♀♀, ant. 28 & 29.

Aenone nigra 1 ♀, ant. 37.

A. hirsuta 1 ♀, ant. 34.

8.6.60 cont. - *Triclistus* St., cont.
Aphidius dimidiatus ♀, ant. 16. *Triclistus* *caesus* ♂, ant. 16.
Prion ♂, ant. not mtd. *Ephedrus* ♂, ant. 16. (Hagler? St. mtd.)
Proctos very many including *Acropicta flaviventris* R. ♀, ant. 16.

Chalcids ca 20, none mtd.

Cynipids 6, none mtd.

9th June 1960 - A fine sunny breezy day (Wed).
 Drove to Sligo at 10.40 where Mr. G. Altie waited for me.
 attended to which did not finish till 4.30 P.M.
 After lunch at garage we walked to the river & up
 to left bank & into the woods, joined Goorly Park,
 where I collected from 2 till 4 P.M. I took the following
 insects:-

Dryinids ♂ & ♀ = *Chilozymus infestus* Hal ♀ = possibly *luteus* ♂
Chalcids *quadricaudatus* ♀ ♀ at lower stump - one taken

9.6.60 cont. *Reservoir* above Sligo, Co. St.,
Selandria *serena* ♀ *Ten. luteiventris* ♀
Triclistus *caesus* ♂ ♀ *Triclistus* ♀ = *luteiventris* *caesus*
Cryptinids ca 25, 4 only mtd. =
Phygadeuonid ♂, ant. 23
Atractodes ♂ (ant. 23), ♀ (ant. 23).
Leptocryptus ♂ ♀, ant. 24.
Homocidus signatus ♂, not mtd.
Chalcids 1, ant. 29 =
Triclistus ♂, probably all same species, but one has more green than the others.
 1 pale scutellum (ant. broken, 21+); two have red femora & white banded hind tibiae & pale
 scutellum (ant. 32 & 35); the fourth has black scutellum (ant. 36), otherwise like 2 & 3. All ♂♂?
Perilissus 2 = *P. orbitalis* ♀, ant. broken, 29+.
P. umbicinctus ♀, ant. 31.
Mesoleptus ♂, *typhae* ♂, ant. 30.
Stenomacrus 3 ♂♂, 2 ♀♀, including *St. curvicaudatus*, 2 ♀♀, ant. 25 & 26.
S. carbonaria Roman, 2 ♂♂ (ant. both 21), 1 ♀ (ant. 20).
Campoplegid 2, not mtd.
Phaenocarpa 1 = *P. cf. cf.* ♂, ant. 20, abd. short, lat. compressed beyond tergite 2, no areolet,
 ? near *Eutetrax*. Cf. 2 ♂♂, 1 ♀ from *Glynnacomb*, DU. (12.2) 7.10.42, & ♀ from R. Canal, KD, (1) 10.10.43.
Brachon spp. 19 = *B. fulvipes* ♂, ant. 39. *B. rivulatus* m. 2 ♂♂ (ant. 37 & 40), 3 ♀♀ (ant. 41, 32, 32).
Brachon macrodactylus m. large ♀, ant. 36, & probably, 4 ♂♂, ant. 34.
B. sp. near crassigula m. ♂, ant. broken, 29+, hair-pit on abd. *B. cf. titubans* Wasm ♀, ant. 27.
 Also 7 ♂♂ there not tried to name with antennae broken, 26, 28, 28, 29, 29 & 32. *B. cf. titubans* Wasm ♀, ant. 24, which
 might be the same species.
Euphorini 3 = *E. cf. pallipes* 2 (♂♂), ant. 21 & 22.
E. pallidistigma, 1, ant. 16.
Microcentrus n. sp. Lyle ♀, ant. 29.
Blacus longipennis 1 ♂, ant. 19.
Pentapleura ♂, not mtd.

88. 9.6.60, cont. Pierids above Sligo, 34, cont

Aspilota spp. 10 mtd. = A. endocroci 2 ♀, Type ant. 20: very like divina ex. g., but ant. segs
ant. much longer & slenderer; prop. quite smooth & undivided: see also
A. crumpeana 2 ant. 25. \ 2 ♀ taken in Tollymore Park on 1.9.57. AWS 27.10.60. Very faintly
A. cf. micacea ♀, var. prop. partly smooth, ant. 17/18. C. of same size, but shorter, 21. seg. ant. ♀,
A. cf. ? var. quercus, 3 ♂♂ (ant. 22, 23 & 25), 1 ♀ (ant. 25) but all same species!
A. cf. ? var. imitator: very black, very small, ant. 16, ♀, about 2nd cubital cell, no dimples (?).
A. (Synaldis) 2 ♂♂, ant. 14: very dark, very wide head, very short, stout antennae, near temporalis?

Phaenocarpa porticus 2 ♂♂, 1 ♀. One ♀ mtd. her ant. with 32 segments.

D. didas ^{large} ♂, ant. 36, also a small ♀, ant. 28

D. lugubris ♂, ant. 35.

D. cf. ? ♂, ant. broken, 24+. Cf. 2 ♂♂, 1 ♀ taken at Gollierstown, Co. DU. on (2) 31.8.47
+ put in oval group (box 2).

Triclistus angulatus ♀, small, ant. 11

Ephedrus plagiator ♀: not mtd.

Praon of Abietis ♀, ant. 15 or if an Aphidius it could be A. leucoptera Hal.!

Aphidius 2: not mtd.

Proctos. ca 15, including 1 large Proctotrupina with ^{not mtd.} recessus "!"
2 Belystids only mtd. =

Coleoptera, ca 25: none mtd.

Longhorn 1: not mtd.

Sedges: only 4 spp. seen. C. disticha near town, C. rivata common,
C. rivata, in one place by lake; C. sylvestris, near Castellum.

Logwood (Comarostaphylos) forming scrub by path along lake
but no other plants of interest noted.

10th June 1960. A fine day, no rain, much sun,

1 light W. wind.

W. Balling & I spent from 11 AM till 4 PM on
the west slope of the SW slope of the Ben Bulbin range
where it joins E. & forms the N. side of Glenties.

All the way in Co. Sligo. The results were most
disappointing & no plant of interest was seen along the
base of the cliffs or below, except one little tree of
White Birch (Betula) 1 of which I saw
a small branch. Besides this we saw on plant of
A. sp. viridis, 3a. angulatus, Phytomyza viridis
& 3a. angulatus in great numbers, Rosa sp., &
that's about all. Collected a bag of Phytomyza
in a long line of cliffs, viz 600 to 1200 ft.

11th June 1960. A showery day, with frequent showers till
2 PM. ant. a bit light, & with strong SW-W. wind.

Collecting very difficult & almost impossible.
Drove at 10 AM through Sligo to Lough Tollymore where
we spent for a few minutes till shower, then drove via
Maree bath & Comber to NE corner of Lough
Gill at Shroff. Co. Leitrim where we had lunch & tried
sweeping on shore of lake (as in 1959) but a shower
soon stopped collecting. Later drove almost into Sligo.

11.6.60, cont. L. Gill, L. Gill, Co. Sl. & L.E., cont.

d then along Macarthur road to head of Glenties & back to L. Gill & out through Timedell to road at Raghly, where a good sea view. I took some photos of the big storm beach & waves.

On S. side of L. Tobin, Co. Sligo, I took the following insects: 11.30 - 12.30

Trichoptera: 3 = *Trichoptera* ♂, ant. 21, larger

Trichoptera very small ♂, ant. 21.

Phygadeuon ♂, ant. 24 =

Chalcid ♂(?) ant. 22, femur dark =

Chalcid ♂, ant. 22

Phygadeuon ♂, ant. 19

Chalcid ♂, ant. 22

Chalcid 1 =

Chalcid 1 =
Aspilota cf. *randipes* ♀, ant. 18.

11.6.60, cont. Insects taken on shore of L. Gill at Slieve

Trichoptera 5: 2 = *Trichoptera* ♂, ant. 22

Phygadeuon ♂, ant. 21

Chalcid ♂, ant. 20

Trichoptera ♂, ant. 21

Halocremna ♂, ant. 27

11.6.60, cont. Slieve, L. Gill, Co. L.E., cont.

Trichoptera 10 ♂ = ♀, 10 (ant. 22), 12 (ant. 20) etc.

Aspilota ♂, ant. 20.

Aspilota (*Synaldis*) ♂, ant. 17, ant. 15.

Aspilota ♂, ant. 24.

Chalcid ♂, ant. 29.

Chalcids 3 including a very curious ♂ with pale head & blotched wings

Chalcid 2.

In list of insects
seen on 11.6.60
Trichoptera ♂, ant. 22
Trichoptera ♂, ant. 22
small, very dark legs
ant. 21

12th June '60. A severe gale & rain from SE developed during the night & continued till dawn, when wind veered to W. & rain became intermittent. Gale however continued all day with strong glass, but weather deteriorated again in evening & heavy shower fell. Took photos of rough seas at several periods during afternoon.

13th June '60. Spent day driving from Bundoran to Derry, via Dungannon, Banagher, Mountcharles, Glenties, Dungannon, Bally, Glenties & Falcarragh. Took a few photos en route, but did not collect. After arrival at Dungannon we had a four mile walk along edge of golf links. I collected some *Bryophytes* on road-flat (at sea level) of sand & rock on inlet about 3/4 mile E. of Dungannon. A day of shower, but then died out or did not affect us after 2 P.M.

92. 14th June 1960. A very fine day, all hot sun & gentle
cool W-NW breeze. Everything looking very beautiful

In forenoon spent 2 hours along outlet of the new
Lough W of bridge to Horn Head (where collected in
1955) = (1) 14.6.60. Then drove to Ardara River arrived
at 12.30 & had lunch. After lunch Mr Daltry & I walked
through the woods to Bay & back round the coast
on 1955, collecting on the way as far as the
E end of Bay. Returned to Arnold's Hotel

at about 6.30 PM. Collected *Koeleria cristata* &
another grass E of Bay & an Orchid (

) in scrub at E end of the Bay. Also saw, as
in 1955, *Arctostaphylos uva-ursi*, *Orchanchis rubra* (i.e. *abundant*),

Rubus saxatilis, *Orchis purpurella* (*majoris* Swath.),
O. incarnata, *O. fuchsii*, *Listera orata* but no sign

of any *Helleborus* seen near where *Cnicus pratensis* & its
hybrid *C. forsteri* seen in 1955. Mr Daltry

reported seeing a small Fritillary Butterfly, which
he thought was a "Duke of Burgundy" but did not

attempt to catch it, as he was not aware of its never
having been taken in Ireland.

Andrena wilkella ♀

Emilia palmarum ♂

Cratichneumon cf. cornascator ? ♂, ant. 36.

93 14.6.60, cont. *Trametes* *Trametes*, *Horn Head*, C.W.D.
[Insects taken at 1.] 10.30 - 12.30 (1960)

Epitoma *parva* ♂, ant. 22. *Dicranota* sp. ♂, ant. 22.

Cryptinae 5: 1 mtd. = *Scaphium* ♂, ant. 22.

Emilia ♂, not mtd.

Campoplegid 5: 1 mtd. = *Conochus* cf. *marginatus* ♂, ant. 20.

Brachon *opaculus* 5 ♂♂, ant. 25-27. *B. cf. opaculus* ♂, ant. only 21.

B. osculator, 1 minute ♂, ant. 22.

Aspilota *rufipes* ♂, ant. 24. *Chelonus* cf. *rugosus* ♂, ant. 30.

Hypocryptus *intractus* ♂

Perilissus *setulosus* 2 ♂♂, 1 ♀, ant. ♂♂ 27, ♀ 23. The ♀ very lightly coloured.

Euphorus cf. *palipes* 2 ♂♂, ant. 16 & 15. *Meteorus* *micropterus* ♀, ant. 25.

Dacnusa *elegans* 3: none mtd. *D. areolaris* ♂, not mtd.

D. (H.) affinis ♀, not mtd.

Apanteles *disolutus* ♀, ant. 16. *Praon* cf. ♂, not mtd.

Phaenocarpa ♂, ♀, not mtd.

Praon 3: none mtd.

Chalcid ♂, 20. none mtd.

Cynipids 4, none mtd.

Diptera 8: 7 mtd. = *Phanotus* *nigricornis* 2 ♂♂, 2 ♀♀. *Phanotus* *uliginosus* ♂, 2 ♀♀.

Small black ♂, round abd., black wings = *Phanotus* *incanus*.

Commonwealth Institute of Entomology

Director:

E. O. PEARSON, M.A.

Assistant Director:

R. G. FENNAH, M.A.

c/o BRITISH MUSEUM (NATURAL HISTORY),

CROMWELL ROAD, LONDON, S.W.7

Telephone: KENsington 6323

Publications Office and Library:

56, QUEEN'S GATE, S.W.7

Telephone: KNightsbridge 0067/8

11th May, 1960

*Received &
Replied
16/5/60
A.S.*

Dear Stelfox,

Your specimen arrived safely and I have carefully examined it. I think it must be an aberrant specimen of melanocera. I have seen other examples of this species with swollen temples and I am sorry not to have allowed for this in my revision. The distribution of hairs on tergite (2+3) is as in melanocera not vaenia. I notice there is a trace of rugosity at base of t.(2+3) but I find this occasionally in specimens that I have called melanocera.

I will try to get your other box back to you before the end of the month.

Yours sincerely,

*Dacnusa
melanocera
Nixon (non Thomson)
pide Griffiths*

G.S.G. Nixon

17th June 1960. Left Drogheda at 10.5 A.M. & travelling via Letterkenny, Loughaderry & Dungiven had lunch near head of Glenshane Pass, Co. Derry, about 1 P.M. Then resumed journey via. Maghera, Randalstown, Antrim, Lishum & Ballynahinch reached Newcastle & home at 4.15 P.M. Did not collect anything during journey.

Found 2 packets of bread icks waiting for me from E. S. A. Boyne. For detail see Diary under date of 20th June 1960 & his letter dated 2nd ¹⁵ VI '60. ↑
0
1
1
R
18th June 1960. Spent forenoon in garden. In afternoon drove with the Daltrays to Silent Valley & up it to the new Ben Crom reservoir. There took some photos.

TELEGRAPHIC ADDRESS "GOODBODY DUBLIN." TELEPHONE 73481

GOODBODY & WEBB.

GOVERNMENT
STOCK & SHARE BROKERS.

DENIS GOODBODY.

J. W. FREEMAN.

D. C. GOODBODY.

PHILIP R. JACOB

Thomas

Parus ocellatus

from *Harpyia*

furcata

(Salween Kitten)

from The Murrough

Co. Wicklow.

W. & R. JACOB & COMPANY (LIVERPOOL)

Dear Sir/Madam,

As a holder of shares
company you will no doubt have received details re
proposed merger with ASSOCIATED BISCUIT MANUFACTURERS
We would recommend you to accept this offer.

Forms of Acceptance
and the relative Certificate must be lodged with the

The ichs sent by Baynes are:—
Lyodartia (Autonclun) albogothata bred from
Dasychnia pudibunda by Paul William from
Co. Dublin larvae &

24/5/60

50. Jan

14.6.1960, cont. Co. Wick.

Leucophaea taken at 2.

Phaenocarpa 2: *Proctos* *superior* ♀, ant. 21. *Miseta* *oculatus* ♂, ant. 28.

Longiptera 2: 2 mtd. = *Hemiteles*? ♂, ant. 28.

Pezomachus *gambelii* ♂, ant. 22(?)

Pimpla 1♀ = *P. detrita* complex, ♀, ant. 23; short terebra

Mesochorus 2 ♀♀, ant. 21 & 20 =

Euclyptus *oligomera* ♀, ant. 18.

Chalcid ♂, small, ant. 29 =

Chalcid 2: not mtd.

Hormius ♂ 2 ♂♂, ant. 26. Two species of *galligena* ♂♂.

Euphorus 3: 1 mtd. in *P. galligena* (♂?), ant. 22, very red near base.

Leucophaea *lateralis*, small ♀, ant. 30. *Scaphium* ♂, not mtd.

Epineura of *nigritarsis* ♀ (damaged), ant. 25. *O. cf. levis*, ♂, ant. 25, rather dark legs.

Proctos *auratus* 2 ♂♂, one mtd. 1 m. ant. 30, seg.

Aspilota 6 = *A. dentipes* ♀, ant. 19. *A. cf. micans* ♀, ant. 18. *A. cf. Sp. 2*, *Marion Killbride*, *Co. WI. 13.6.51*, ♀, ant. 21.

A. cf. p. ♂, ant. 20. *Microgaster* *lucy*, ♂, ant. 19. *A. (Synaldis)* *plumbeus* ♀, ant. 18.

Orthocentrus ♂, 2 ♀♀, ant. 21 & 22: very ill-defined stigma.

Stenomacrus *diversus* ♂, ant. 33. (2 others: not mtd.)

Chalcid *paucipennis* ♂, ant. 36.

Chalcid 24: 1 mtd. = *G. cf. annalis*, very dark ♀, ant. 18.

Proctos 24: none mtd.

Chalcid 20, including one ill. black *Chalcid* with white wings, none mtd.

14.6.1960, cont.

Longiptera 2: not mtd.

Leucophaea 1 =

15th June 1960. A fine morning, but turning cloudy at 1.30 & some drizzle in afternoon. Drove to Muckish Gap & spent a couple of hours examining the rocks & the gaps, but saw no sign of the *Proctos* & no interesting plants seen except some *Erica* which Mr. Dalton thought might be forms of *Erica* *hebeclausa* or hybrid. With *S. lateralis* & thought would like to grow. After lunch drove on to & spent afternoon in Glenties bath garden & home via Bredagh at 6 P.M. *Pezomachus* *gambelii* ♀ seen in Glenties garden.

Swifts seen at Muckish Gap, alt. 800 ft. & took the following

<i>insects</i>	<i>Calidius</i> ♂	rather dark & dark wings, small flower	{ then swept from meadow
	<i>Proctos</i> 1 =	black beetle	
	<i>Chalcid</i> not mtd.	=	

Also collected *Brachyptera* from 800 to 1,000 ft. at Muckish Gap.

16th June 1960. Forenoon spoiled by strong W. wind & light drizzle, but afternoon fine & sunny, though breezy.

Left hotel at 10.30 & drove to Lough Beg, where collected so-called *Erica* *hebeclausa* to grow, also a small flowered pink *Polygala*. Then on to Rosapenna & Tranteross where had lunch & tried sweeping in bar dunes on Aubrey Bay side of sand flat, but owing to wind only took a few hymenoptera. Went back & round the "Atlantic Drive" past Downings Bay to Rosapenna & Glen Drive, past Downings Bay to Rosapenna & Glen Drive, up to Lough Salt 800 ft., where had aft. tea & coll. large bag of *Brachyptera*. Home via Kilmacurran at 6 P.M.

<i>Chalcid</i> 24	<i>Chalcid</i> <i>viduus</i> ♀ with dark wings, ant. 24	<i>Chalcid</i> 2 ♂♂	{
<i>Chalcid</i> 3 (1 mtd. mtd.)	not mtd.	ant. 27 & 30 - large	

